

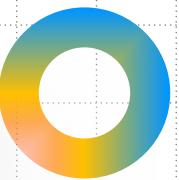
Python Programming

Environment Settings

Dr. Chun-Hsiang Chan
Department of Geography
National Taiwan Normal University

Outlines

- Anaconda Install
- Hello World
- Terminal/ Windows Powershell
- Git



Download Anaconda

- We will use ipython notebook through out the course.
- Here is the download link: <https://www.anaconda.com/download>
- If your computer has no sufficient space for install anaconda, you may consider the light version – miniconda, as follows,
<https://docs.conda.io/projects/miniconda/en/latest/miniconda-install.html>

Download Anaconda

- If you only have limited space for python, and then I suggest you may install the following software in order, python, pip, and jupyter.
- Python: <https://www.python.org/downloads/>
- pip: <https://pip.pypa.io/en/stable/installation/>
- Jupyter: <https://jupyter.org/install>

Anaconda Distribution

Free Download

Everything you need to get started in data science on your workstation.

- ✓ Free distribution install
- ✓ Thousands of the most fundamental DS, AI, and ML packages
- ✓ Manage packages and environments from desktop application
- ✓ Deploy across hardware and software platforms

[Code in the Cloud](#)[Download](#)[Get Additional Installers](#)

**Download anaconda for windows/
mac/ linux, depending on your
system environment**



Open Source

Access the open-source software you need for projects in any field, from data visualization



User-friendly

With our intuitive platform, you can easily search and install packages and create, load,



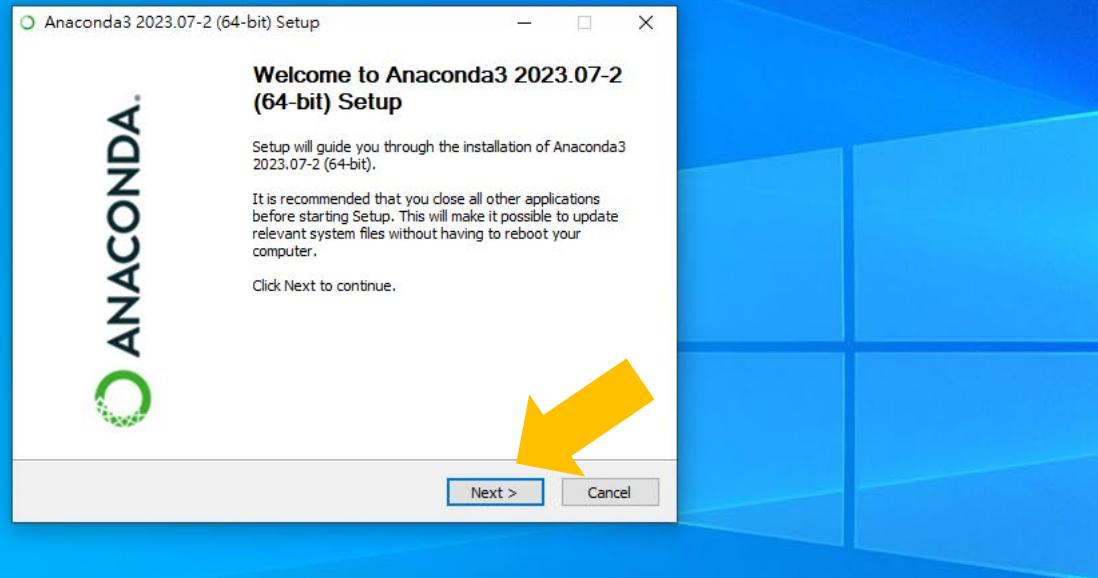
Trusted

Our securely hosted packages and artifacts are methodically tested and regularly updated.

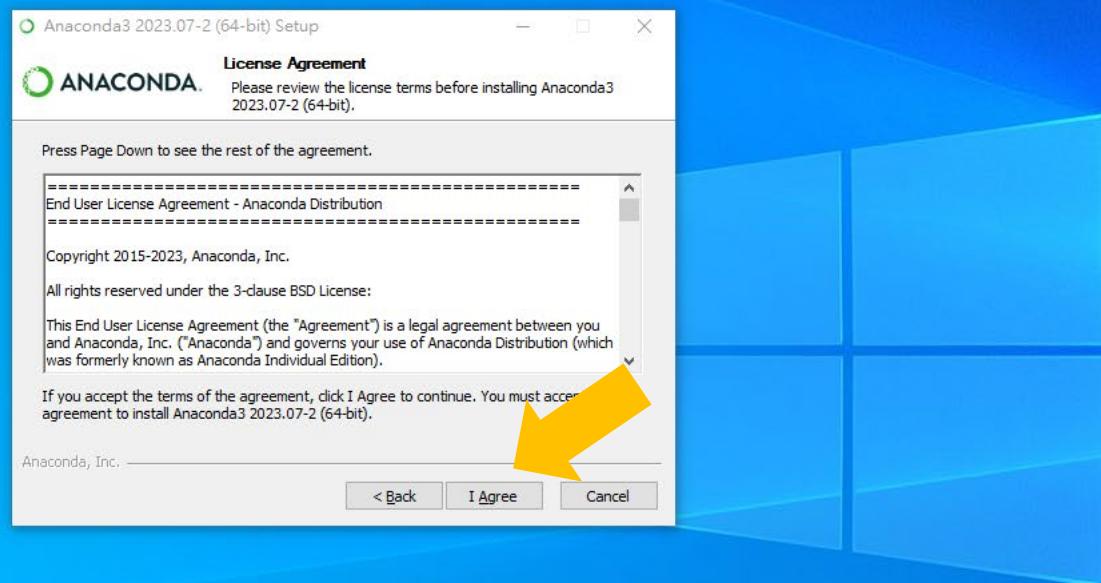


Hey! 🌟 Welcome to Anaconda here to help. What are you look for today?

**Open the .exe (by Run As Administrator/系統管理員) or .dmg files
Click Next**

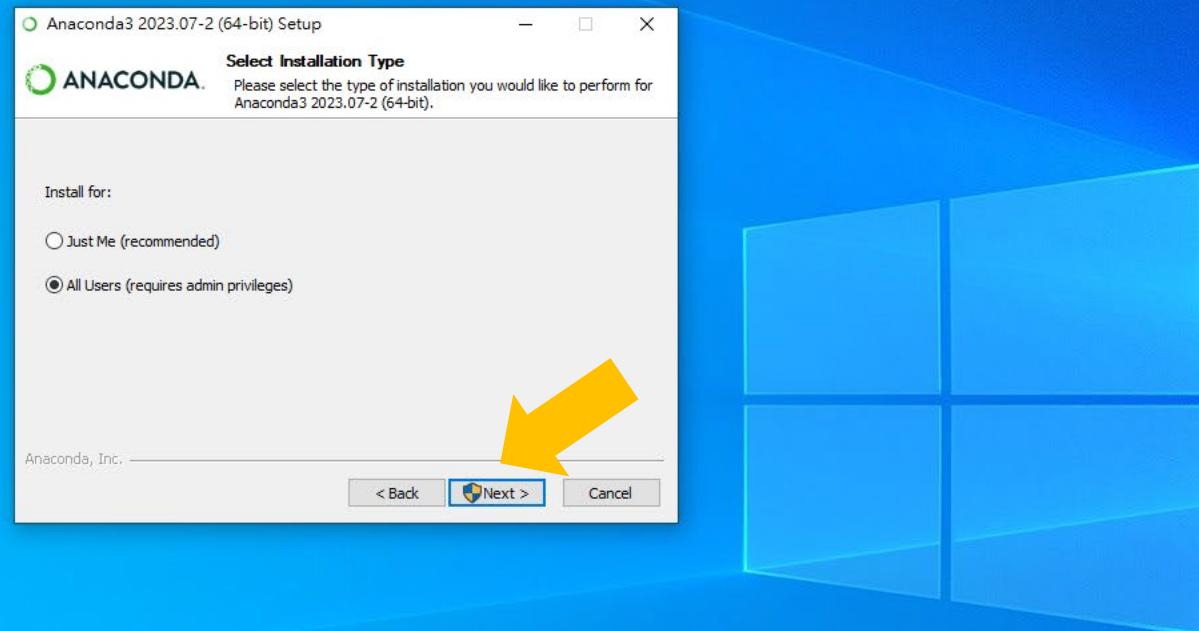


Click “I Agree”



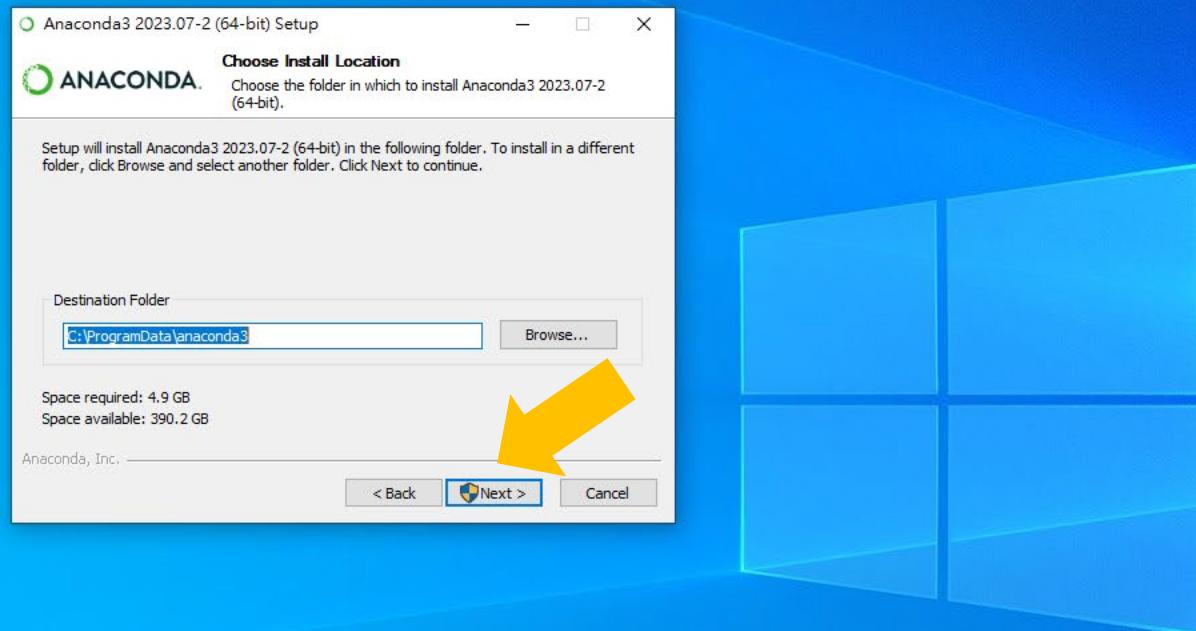
Chun-Hsiang Chan (2025)

Click “Next”



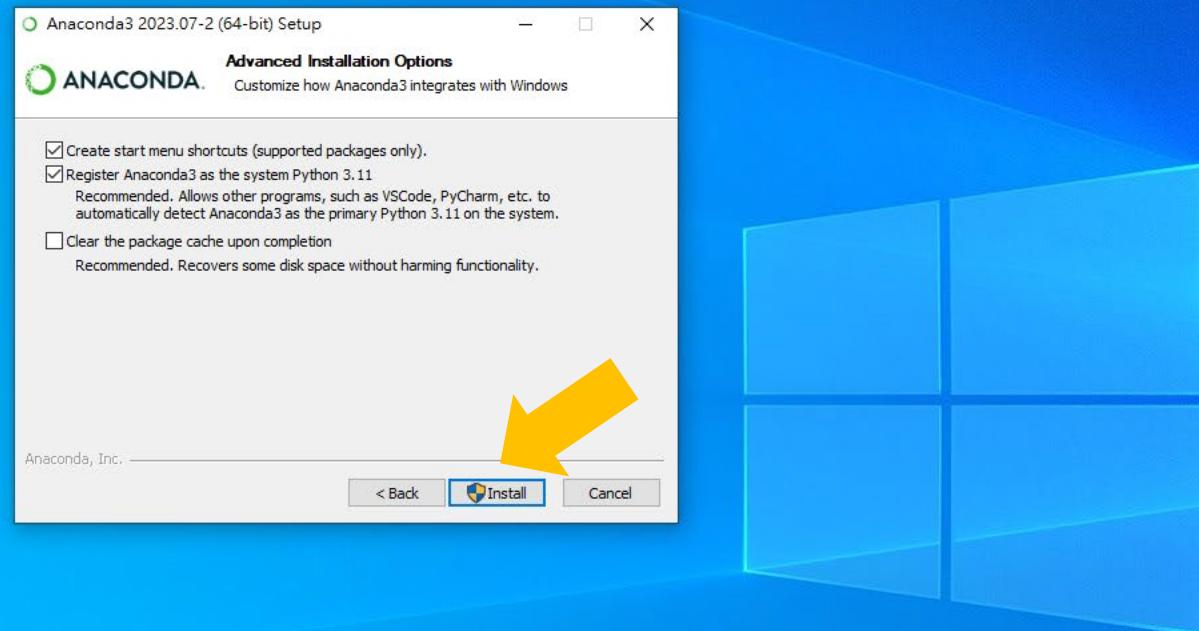
Chun-Hsiang Chan (2025)

Click “Next”



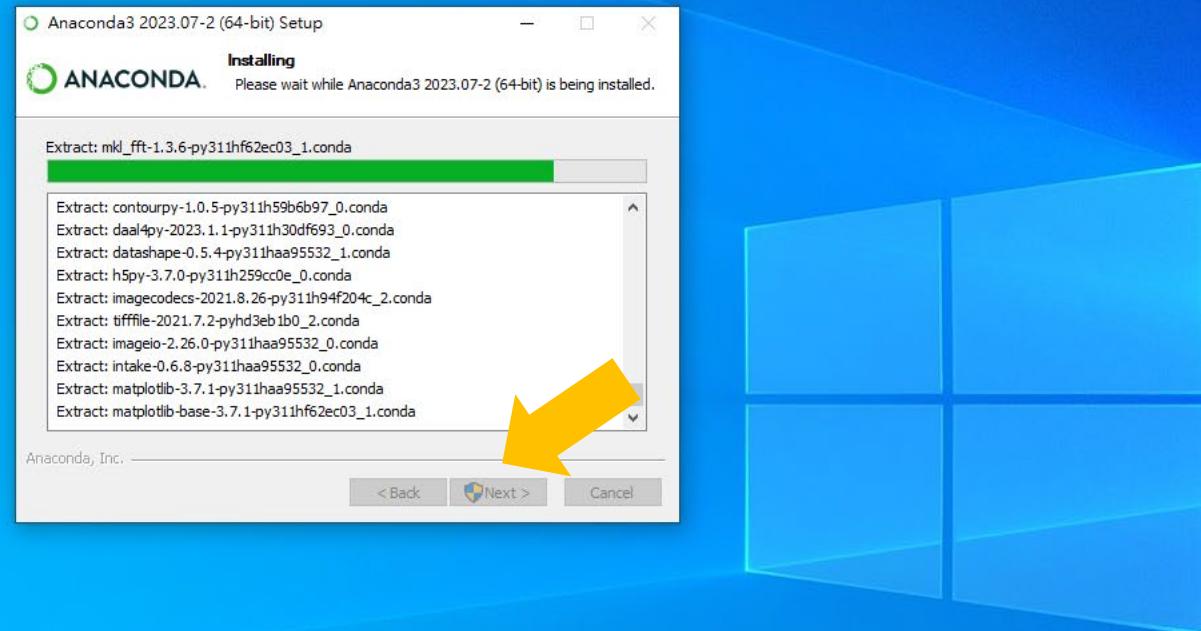
Chun-Hsiang Chan (2025)

Click “Install”

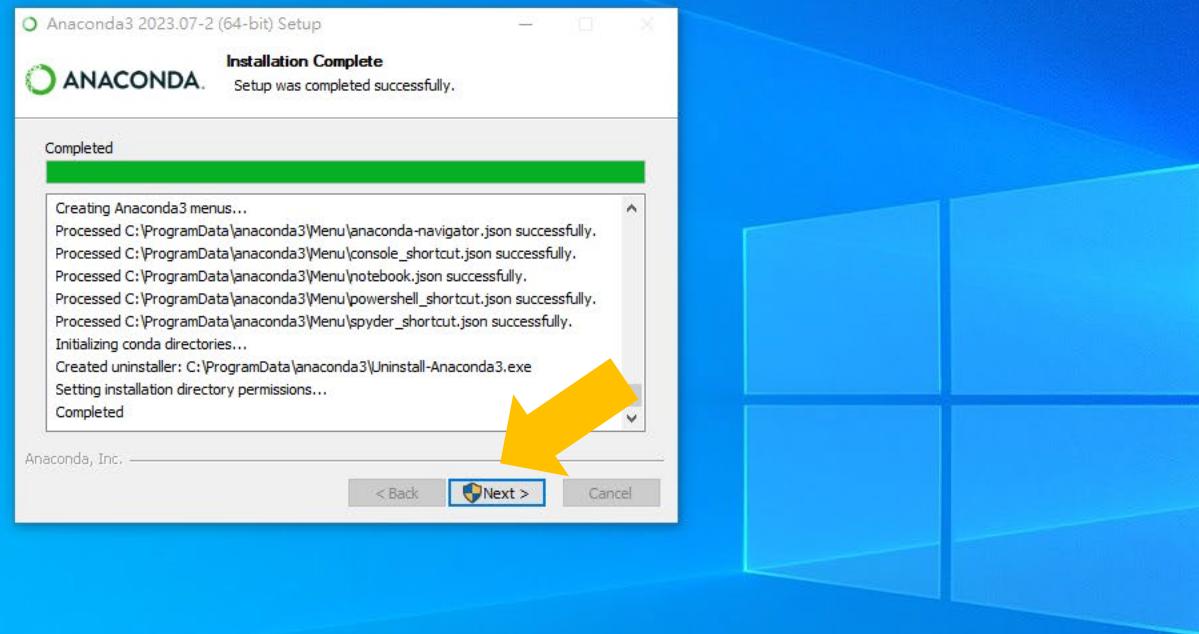


Chun-Hsiang Chan (2025)

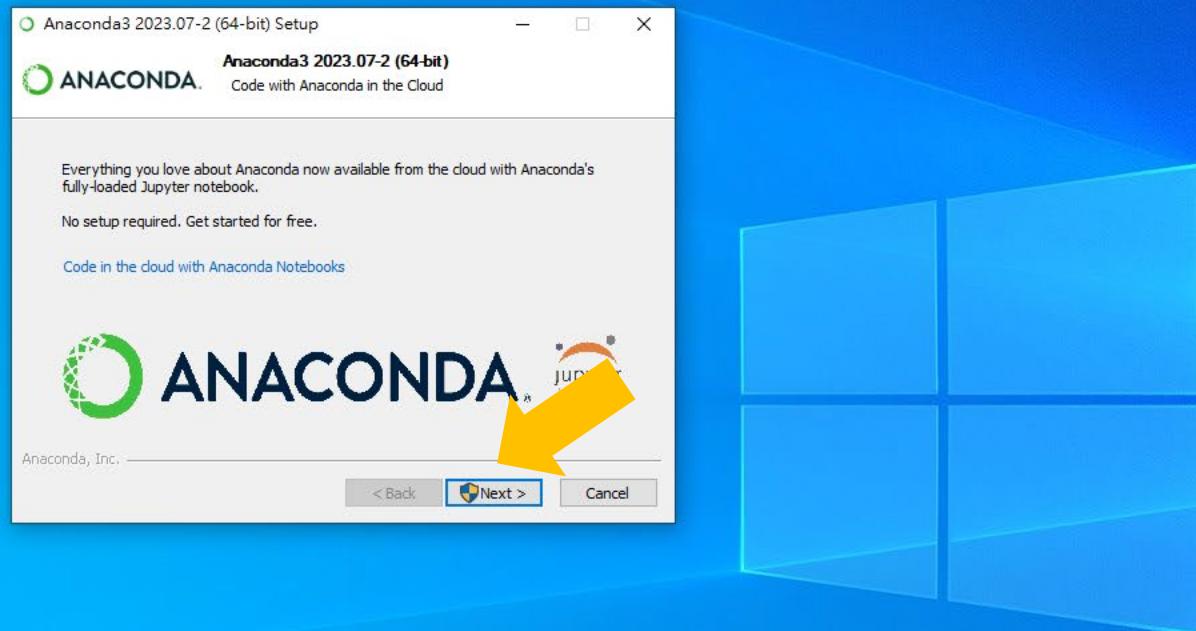
Click “Next”



Click “Next”



Click “Next”



Chun-Hsiang Chan (2025)

Click “Finish”



Chun-Hsiang Chan (2025)

ANACONDA.NAVIGATOR

Connect ▾

Click “Launch”

[Home](#)[Environments](#)[Learning](#)[Community](#)

Anaconda Notebooks New!
Cloud notebooks with hundreds of packages ready to code.
[Learn More](#)

A Full Python IDE directly from the browser

Documentation

Anaconda Blog



All applications	on	base (root)	Channels		
DataSpell	Install	Launch	Anaconda Notebooks	Launch	CMD.exe Prompt 0.1.1
DataSpell is an IDE for exploratory data analysis and prototyping machine learning models. It combines the interactivity of Jupyter notebooks with the intelligent Python and R coding assistance of PyCharm in one user-friendly environment.			Cloud-hosted notebook service from Anaconda. Launch a preconfigured environment with hundreds of packages and store project files with persistent cloud storage.		Run a cmd.exe terminal with your current environment from Navigator activated
Qt Console 5.4.2	Launch	Spyder 5.4.3	Datalore	IBM Watson Studio Cloud	ORACLE Cloud Infrastructure
PyQt GUI that supports inline figures, proper multiline editing with syntax highlighting, graphical calltips, and more.		Scientific Python Development Environment. Powerful Python IDE with advanced editing, interactive testing, debugging and introspection features	Kick-start your data science projects in seconds in a pre-configured environment. Enjoy coding assistance for Python, SQL, and R in Jupyter notebooks and benefit from no-code automations. Use Datalore online for free.	IBM Watson Studio Cloud provides you the tools to analyze and visualize data, to cleanse and shape data, to create and train machine learning models. Prepare data and build models, using open source data science tools or visual modeling.	Oracle Data Science Service OCI Data Science offers a machine learning platform to build, train, manage, and deploy your machine learning models on the cloud with your favorite open-source tools
Glueviz 1.2.4	Launch	Orange 3 3.34.0	powershell_shortcut_miniconda 0.0.1	PyCharm Professional	RStudio 1.1.456
Multidimensional data visualization across files. Explore relationships within and among related datasets.		Component based data mining framework. Data visualization and data analysis for novice and expert. Interactive workflows with a large toolbox.		A Full-fledged IDE by JetBrains for both Scientific and Web Python development. Supports HTML, JS, and SQL.	A set of integrated tools designed to help you be more productive with R. Includes R essentials and notebooks.



Login

Don't have an account yet? [Sign Up](#)

Email Address

Sign In

Sign with “email”





Quit

Logout

Files Running Clusters

Select items to perform actions on them.

Upload New

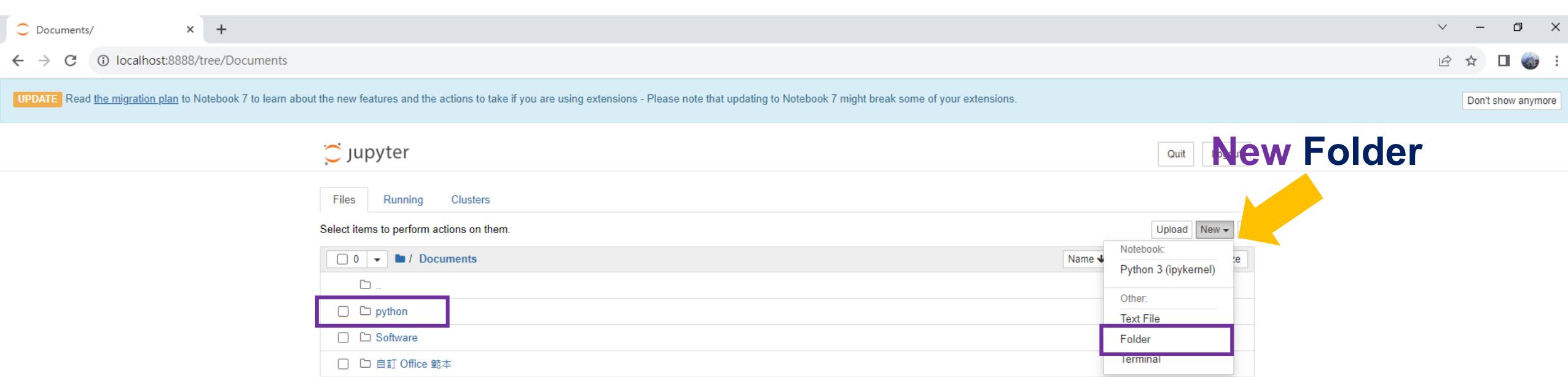
Name Last Modified File size

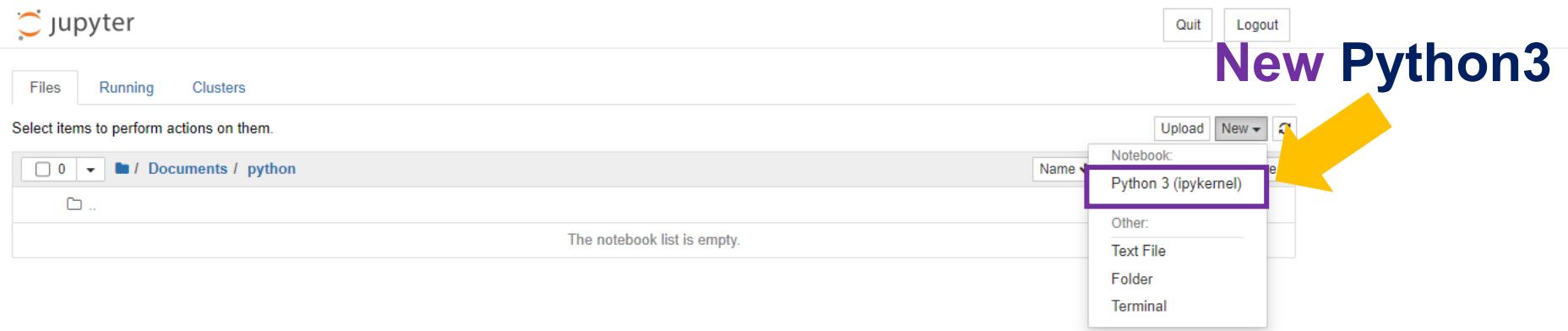
0 /

Click “Documents”



<input type="checkbox"/> 3D Objects	4 年前
<input type="checkbox"/> Contacts	4 年前
<input type="checkbox"/> Desktop	3 天前
<input type="checkbox"/> Documents	3 天前
<input type="checkbox"/> Downloads	32 分鐘前
<input type="checkbox"/> Favorites	4 年前
<input type="checkbox"/> Links	4 年前
<input type="checkbox"/> Music	4 年前
<input type="checkbox"/> OneDrive	4 天前
<input type="checkbox"/> Pictures	4 年前
<input type="checkbox"/> Saved Games	4 年前
<input type="checkbox"/> Searches	4 年前
<input type="checkbox"/> Videos	4 天前





jupyter Untitled Last Checkpoint: 極秒前 (unsaved changes)  Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3 (ipykernel)

In []: |

Cell

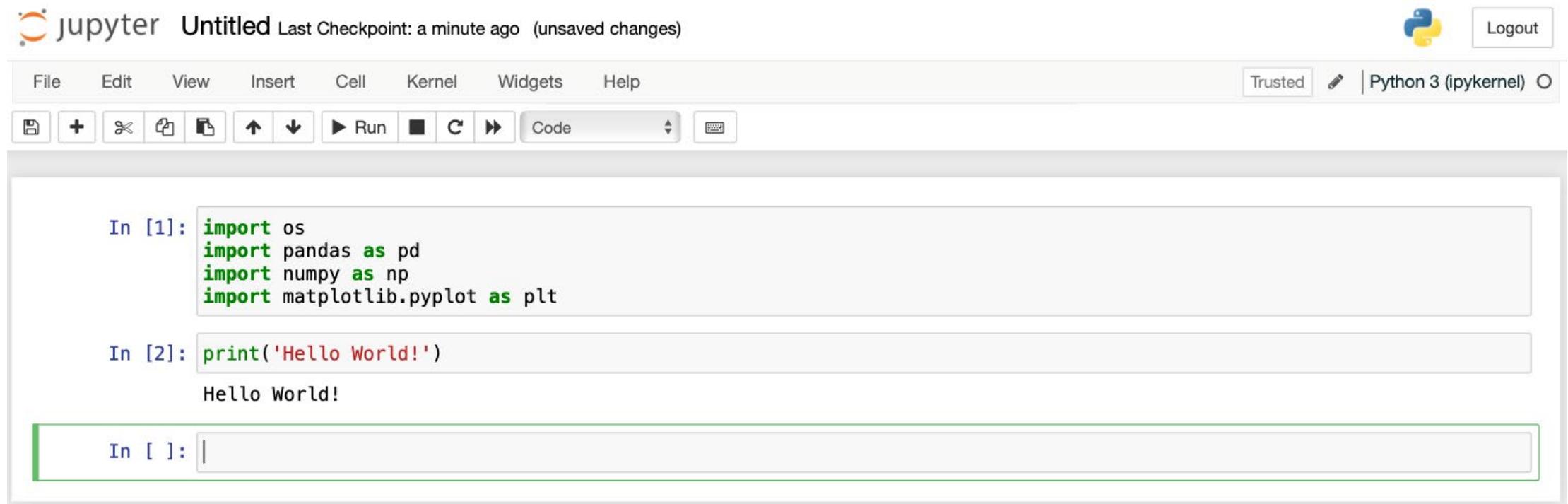
Command Mode (press `Esc` to enable)

Edit Shortcuts

<code>F</code> : find and replace	<code>↑↓</code> : extend selected cells below
<code> ↵</code> : enter edit mode	<code>↑J</code> : extend selected cells below
<code>⌘↑F</code> : open the command palette	<code>⌘A</code> : select all cells
<code>⌘↑P</code> : open the command palette	<code>A</code> : insert cell above
<code>P</code> : open the command palette	<code>B</code> : insert cell below
<code>↑↔</code> : run cell, select below	<code>X</code> : cut selected cells
<code>↖↔</code> : run selected cells	<code>C</code> : copy selected cells
<code>↙↔</code> : run selected cells	<code>↑V</code> : paste cells above
<code>↖↔</code> : run cell and insert below	<code>V</code> : paste cells below
<code>Y</code> : change cell to code	<code>Z</code> : undo cell deletion
<code>M</code> : change cell to markdown	<code>D</code> , <code>D</code> : delete selected cells
<code>R</code> : change cell to raw	<code>↑M</code> : merge selected cells, or current cell with cell below if only one cell is selected
<code>1</code> : change cell to heading 1	<code>⌘S</code> : Save and Checkpoint
<code>2</code> : change cell to heading 2	<code>S</code> : Save and Checkpoint
<code>3</code> : change cell to heading 3	<code>L</code> : toggle line numbers
<code>4</code> : change cell to heading 4	<code>0</code> : toggle output of selected cells
<code>5</code> : change cell to heading 5	<code>↑0</code> : toggle output scrolling of selected cells
<code>6</code> : change cell to heading 6	<code>H</code> : show keyboard shortcuts
<code>K</code> : select cell above	<code>I</code> , <code>I</code> : interrupt the kernel
<code>↑</code> : select cell above	<code>0</code> , <code>0</code> : restart the kernel (with dialog)
<code>↓</code> : select cell below	<code>Esc</code> : close the pager
<code>J</code> : select cell below	<code>Q</code> : close the pager
<code>↑K</code> : extend selected cells above	<code>↑L</code> : toggles line numbers in all
<code>↑↑</code> : extend selected cells above	

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Hello World



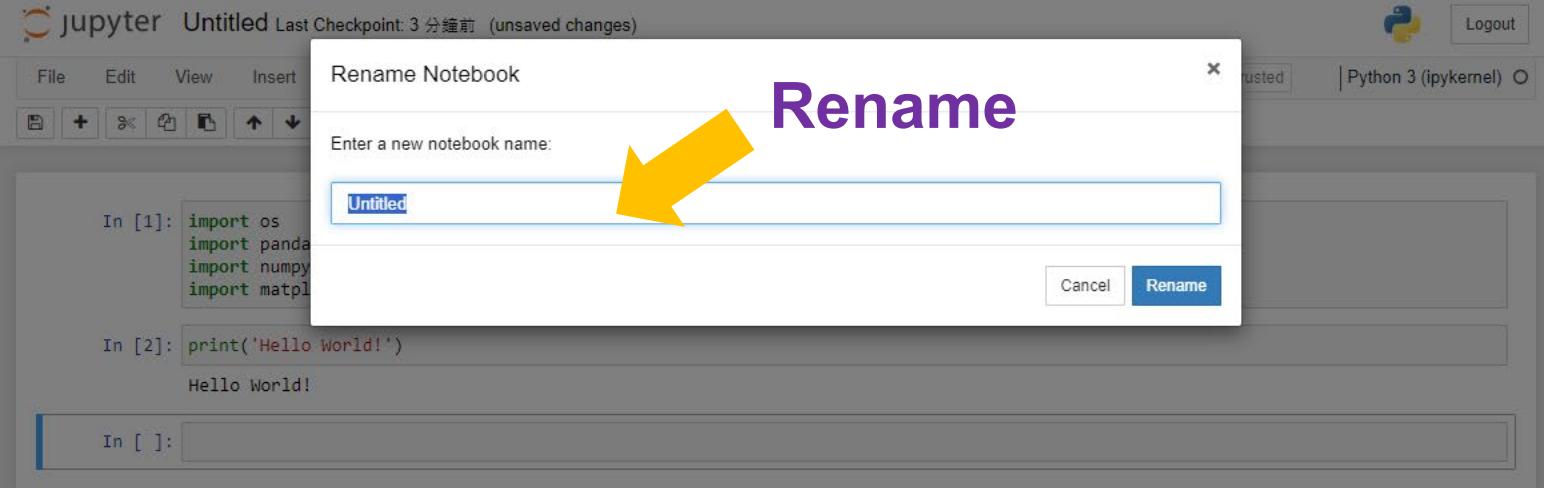
The screenshot shows a Jupyter Notebook interface with the following details:

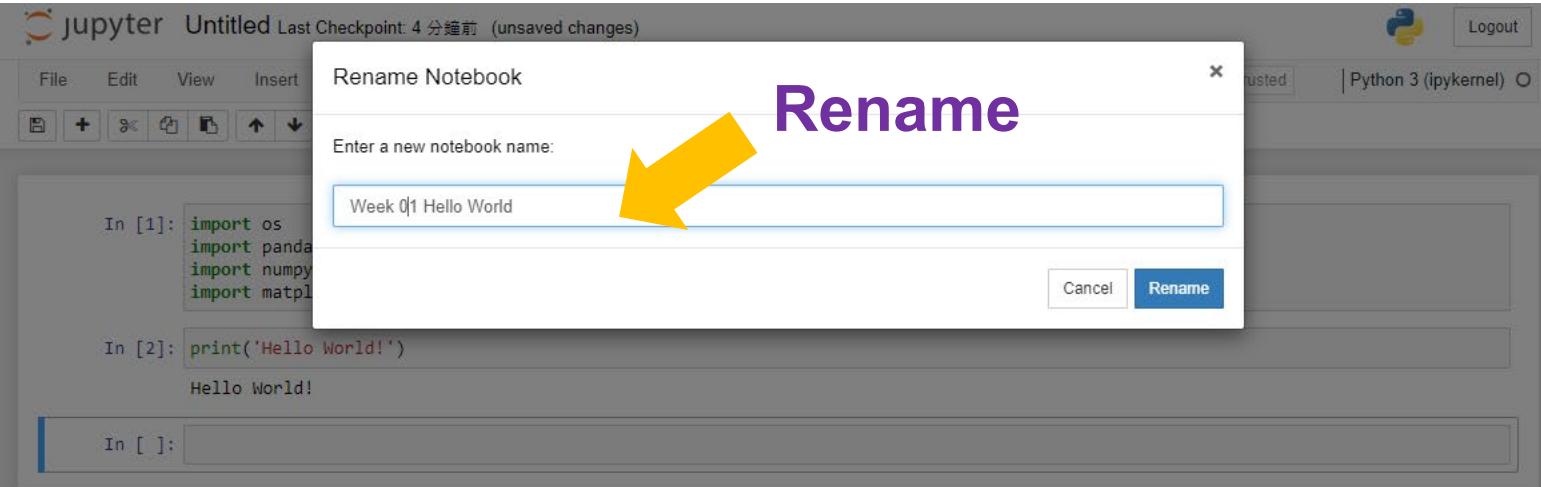
- Header:** jupyter Untitled Last Checkpoint: a minute ago (unsaved changes)
- Toolbar:** File, Edit, View, Insert, Cell, Kernel, Widgets, Help, Trusted, Python 3 (ipykernel), Logout.
- Tool Buttons:** A row of icons for file operations (New, Open, Save, etc.) and cell execution (Run, Cell, Kernel, Help).
- Code Cells:**
 - In [1]:

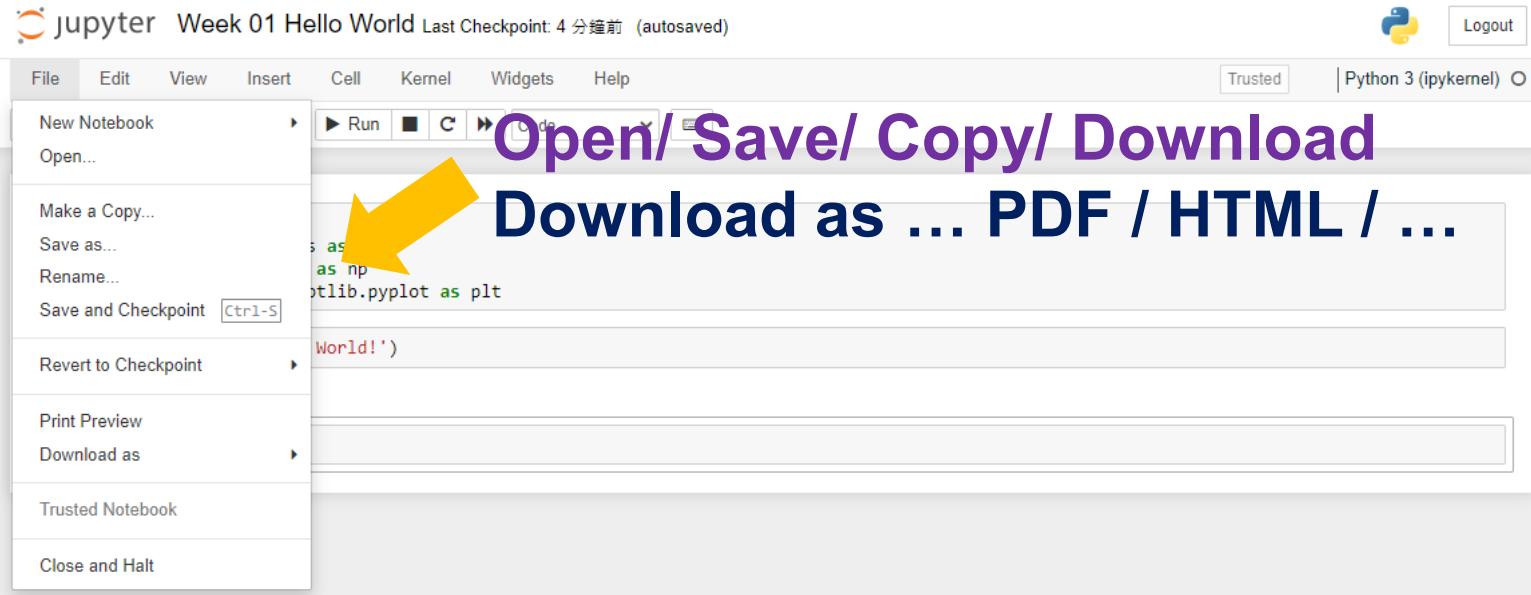
```
import os
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
```
 - In [2]:

```
print('Hello World!')
```

Output: Hello World!
 - An empty cell In []: with a cursor.









File Edit View Insert Cell Kernel Widgets Help

Trusted

Python 3 (ipykernel) O

- Cut Cells X
- Copy Cells C
- Paste Cells Above Shift-V
- Paste Cells Below V
- Paste Cells & Replace
- Delete Cells D, D
- Undo Delete Cells Z
- Split Cell Ctrl-Shift-Minus
- Merge Cell Above
- Merge Cell Below
- Move Cell Up
- Move Cell Down
- Edit Notebook Metadata
- Find and Replace
- Cut Cell Attachments
- Copy Cell Attachments
- Paste Cell Attachments
- Insert Image

Cell Part
Cut (X) / Copy (C) / Delete (DD)/ Paste (V)/ ...





File

Edit

View

Insert

Cell

Kernel

Widgets

Help

Trusted

Python 3 (ipykernel)



In [1]:
import os
import pandas
import numpy
import matplotlib

In [2]:
print('Hello
World!')

In []:

Run Cells

Run Cells and Select Below

Run Cells and Insert Below

Run All

Run All Above

Run All Below

Cell Type

Current Outputs

All Output



Run Cell/ Run All (Above/ Below)



File Edit View Insert Cell Kernel Widgets Help Trusted Python 3 (ipykernel) Logout

In [1]:
import os
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt

In [2]:
print('Hello World!')
Hello World!

In []:

Interrupt 1,1
Restart 0,0
Restart & Clear Output
Restart & Run All
Reconnect
Shutdown
Change kernel ▾



Kernel: Interrupt/ Restart (Clear/ All)/ Reconnect/ Shutdown



File Edit View Insert Cell Kernel Widgets



```
In [1]: import os  
import pandas as pd  
import numpy as np  
import matplotlib.pyplot as plt
```

```
In [2]: print('Hello World!')  
Hello World!
```

```
In [ ]:
```

Help

Trusted

Python 3 (ipykernel) O

User Interface Tour

Keyboard Shortcuts H

Edit Keyboard Shortcuts

Notebook Help

Markdown

Python Reference

IPython Reference

NumPy Reference

SciPy Reference

Matplotlib Reference

SymPy Reference

pandas Reference

About

Shortcuts





File Edit View Insert Cell Kernel Widgets Help

Trusted | Python 3 (ipykernel) |

A row of small icons for code editor functions: file, new, save, cut, copy, paste, run, etc.

```
import matplotlib.pyplot as plt
```

```
In [2]: print('Hello World!')
```

```
Hello World!
```

```
In [3]: a = [0,1,2,3,4,5,6]  
b = [2,4,6,8,10,11,12]
```

list

Print variable

```
In [4]: print(a)
```

```
[0, 1, 2, 3, 4, 5, 6]
```

View variable

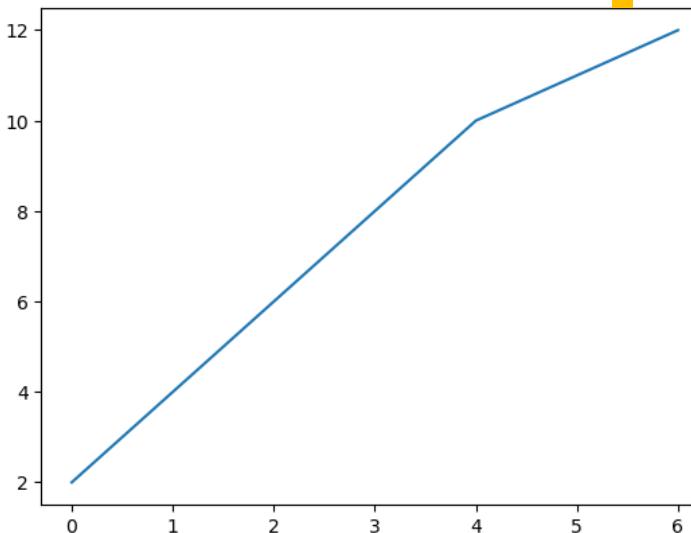
```
In [5]: a
```

```
Out[5]: [0, 1, 2, 3, 4, 5, 6]
```

```
In [6]: plt.plot(a, b)  
plt.show()
```

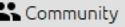
Plot variable

Run few codes for fun



ANACONDA.NAVIGATOR

Connect ▾

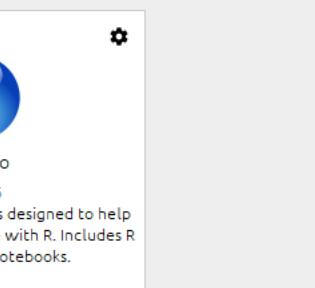
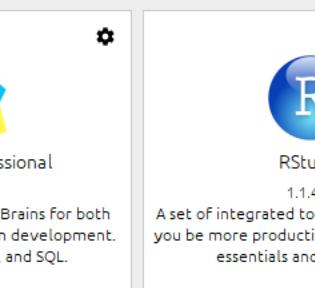
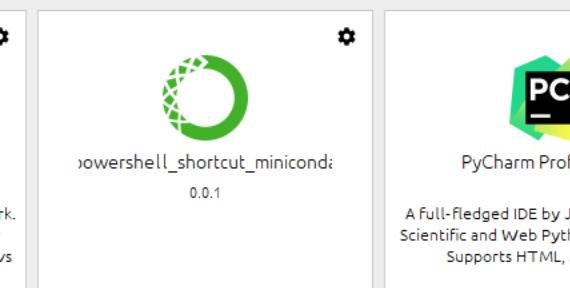
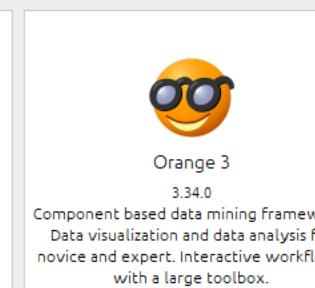
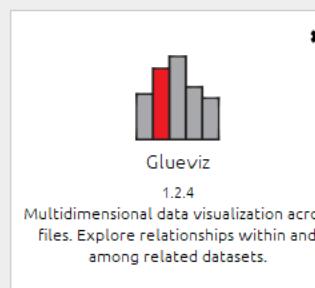
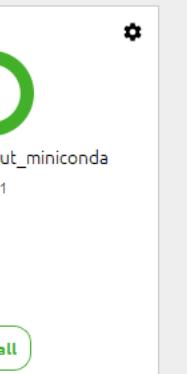
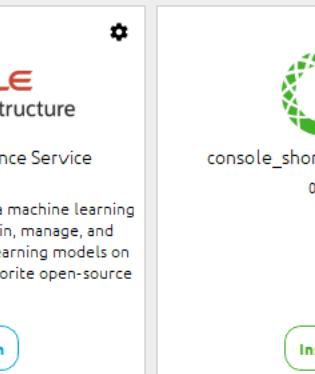
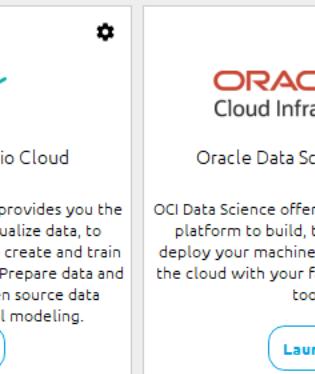
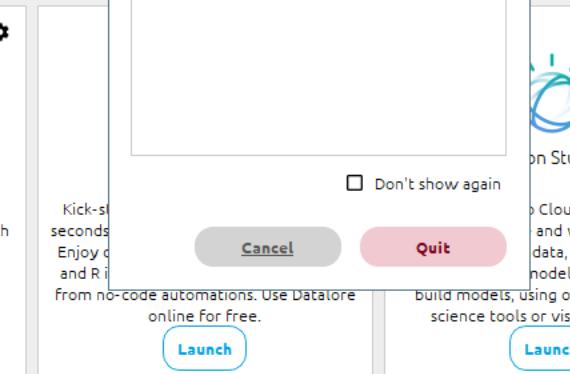
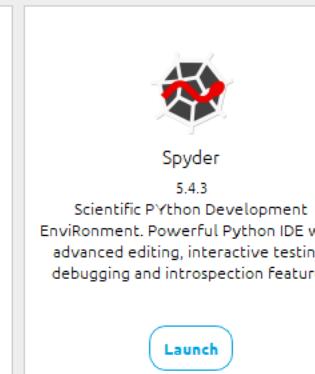
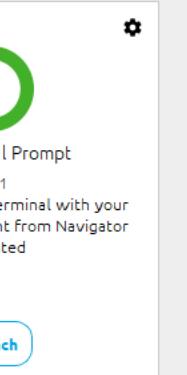
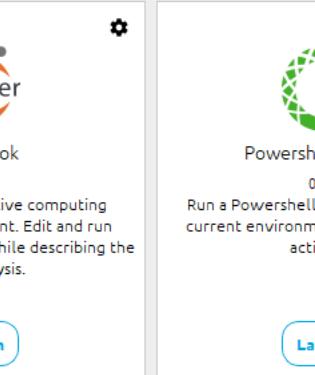
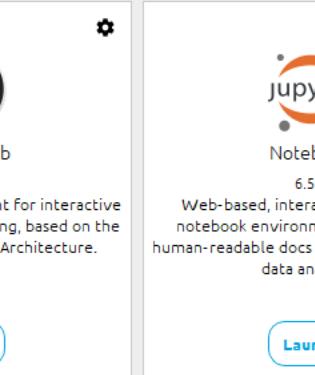
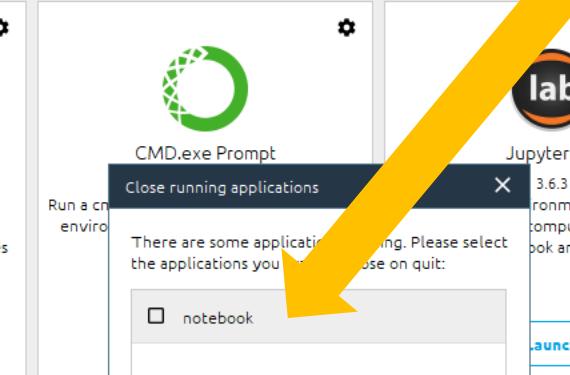
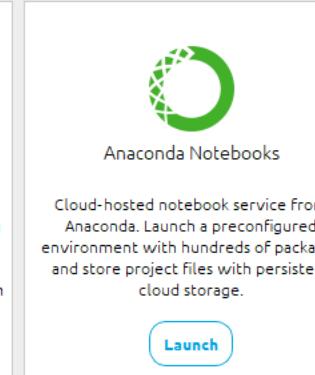
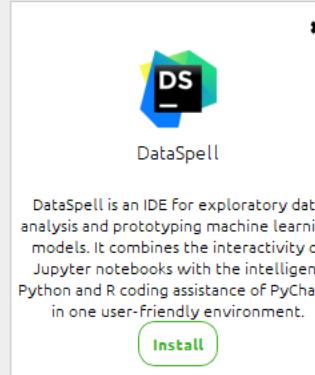
A Full Python IDE
directly from the
browser

Documentation

Anaconda Blog

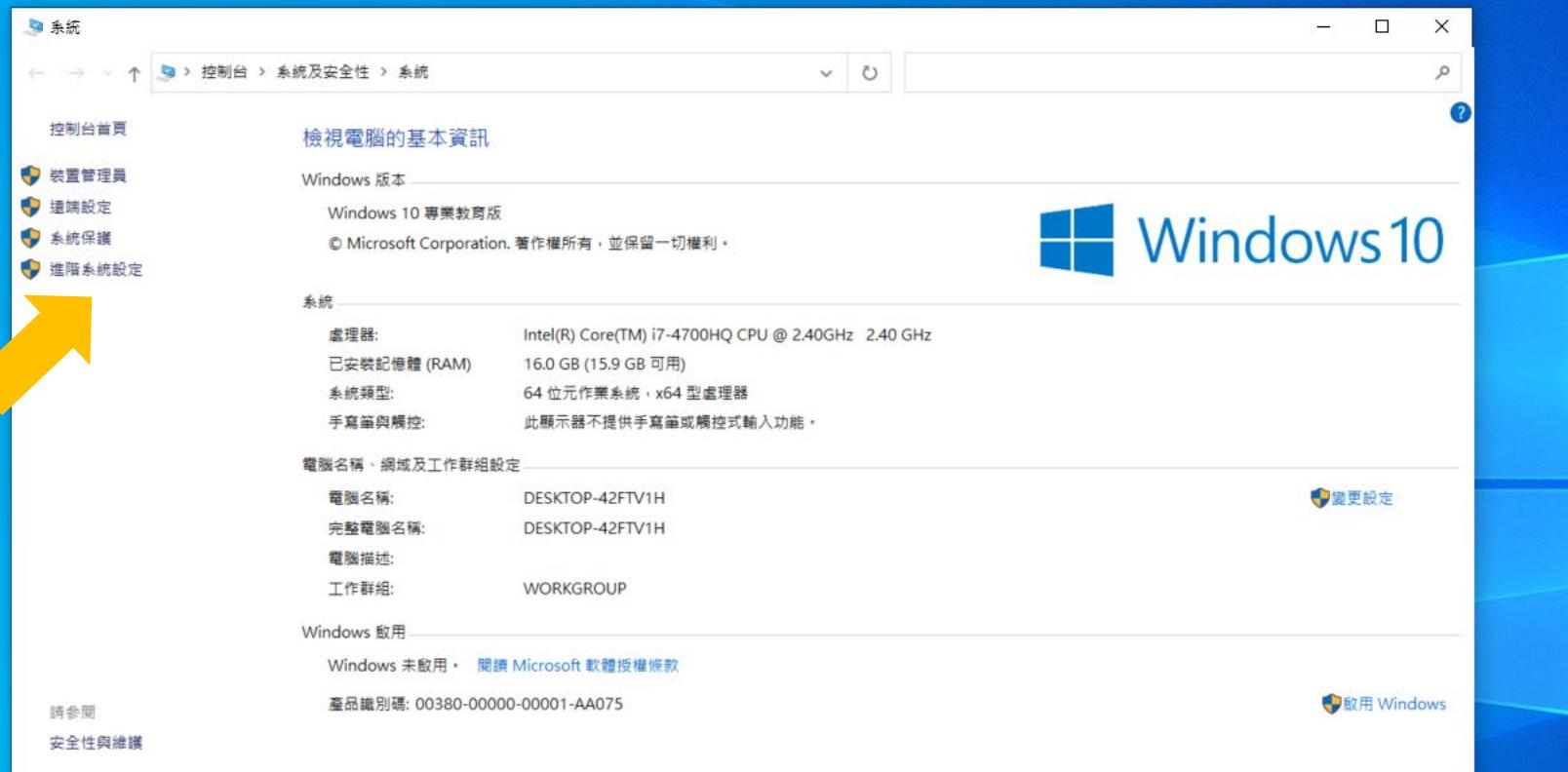


All applications on base (root) Channels



Close Jupyter

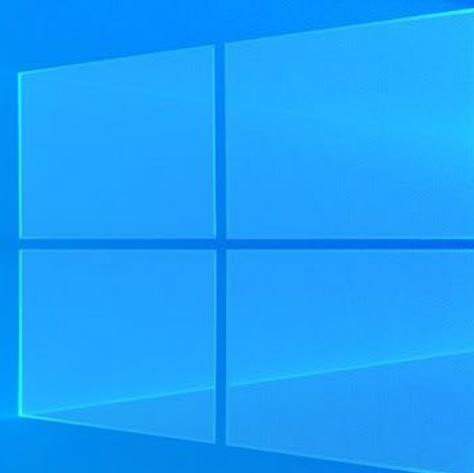
The duration of opening anaconda for jupyter notebook is quite long.
Here, we may open jupyter in terminal ... but for windows users ...



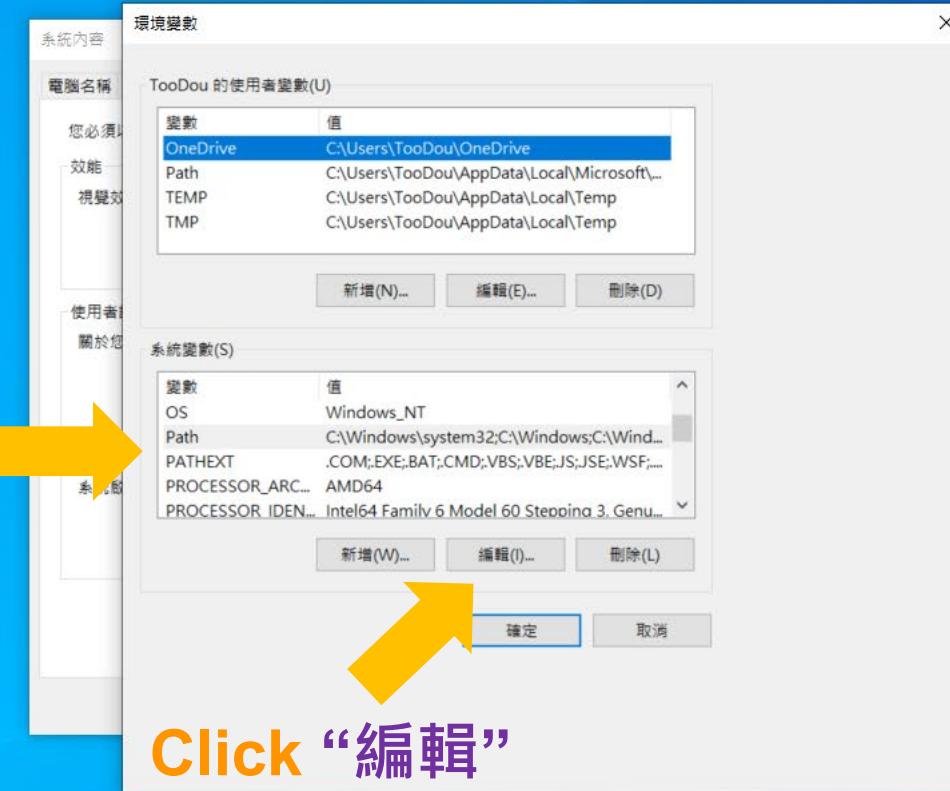
Set System
Env



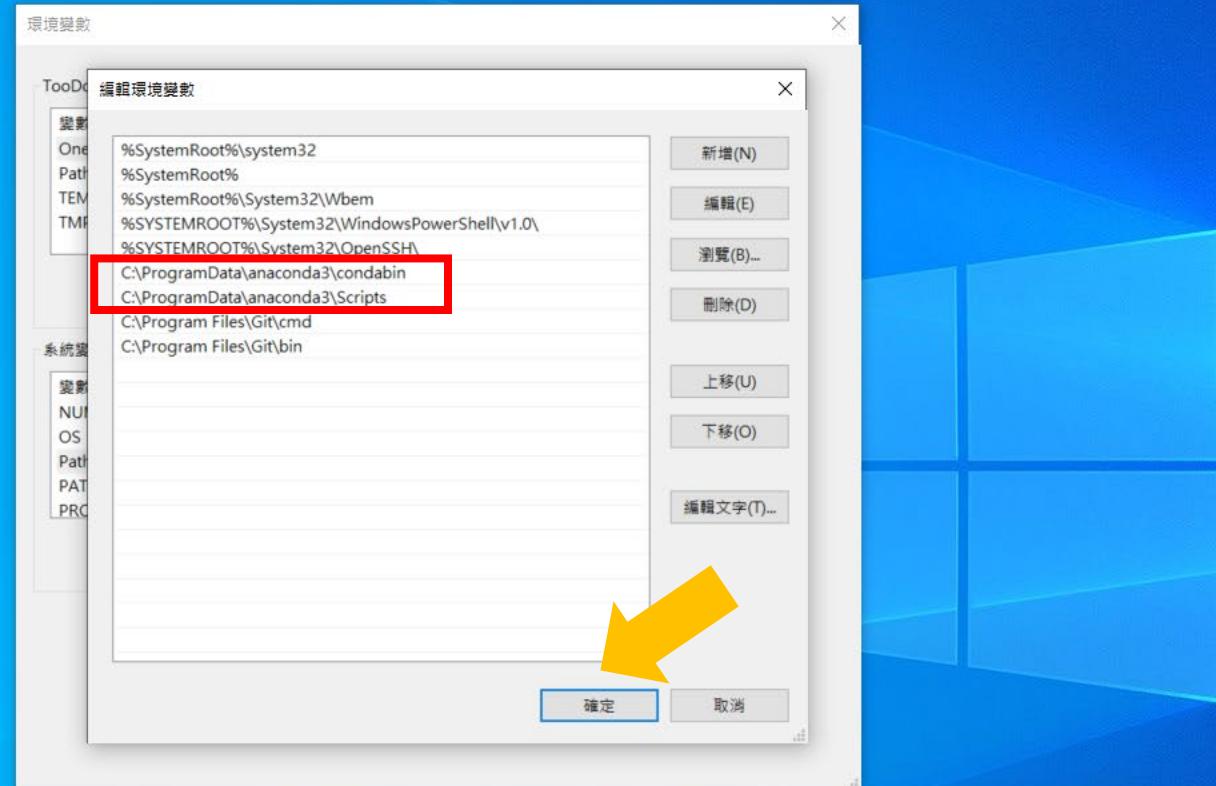
Click “環境變數”

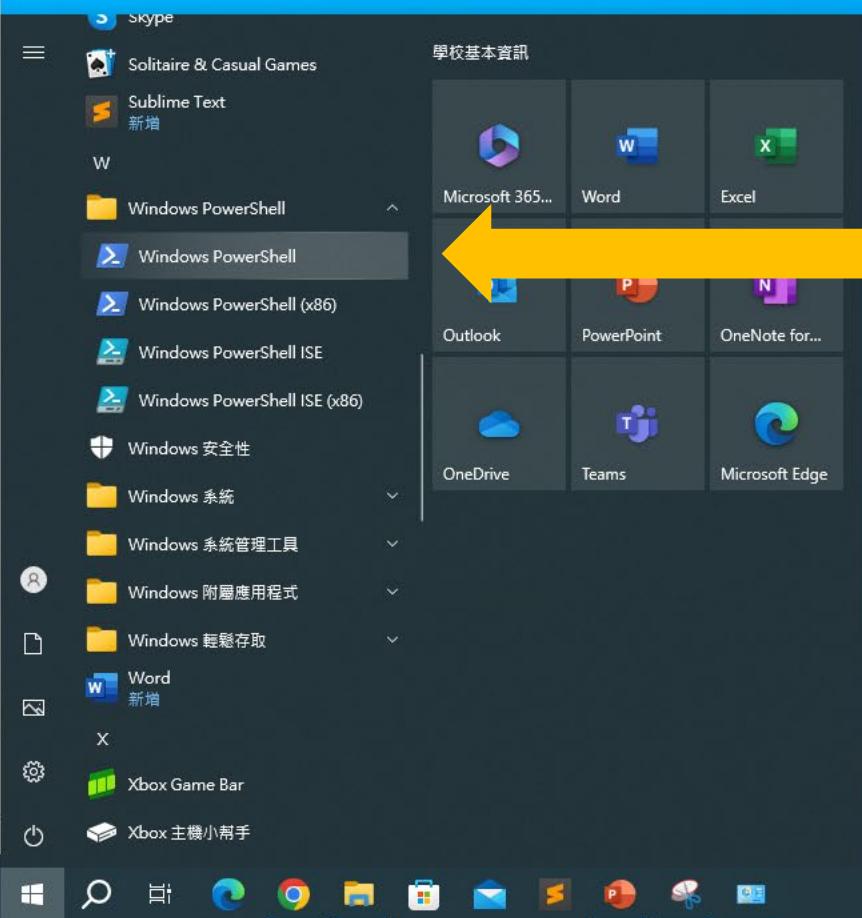


Select “Path”



Set “環境變數” (environmental variables)

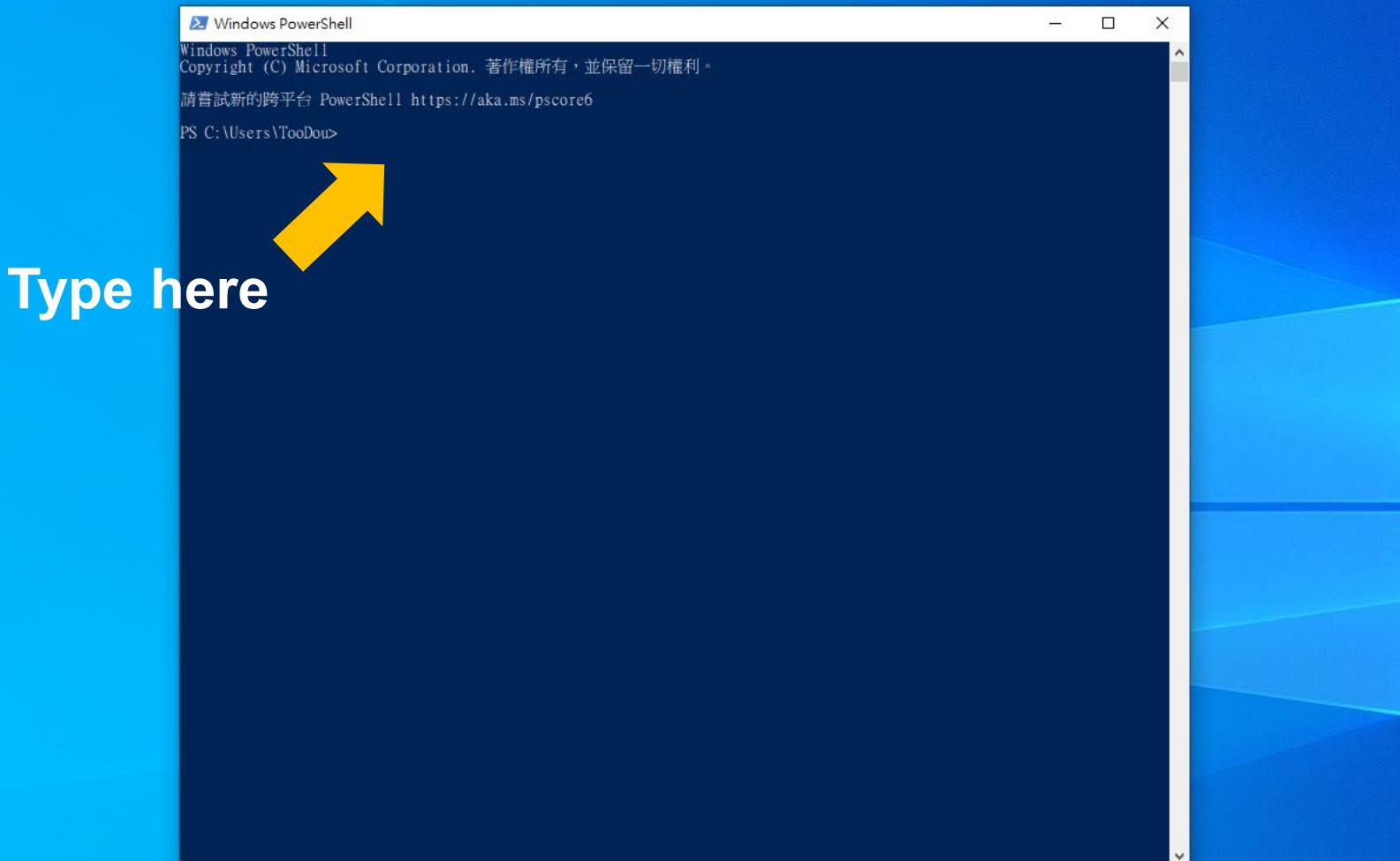




Open “Windows PowerShell”



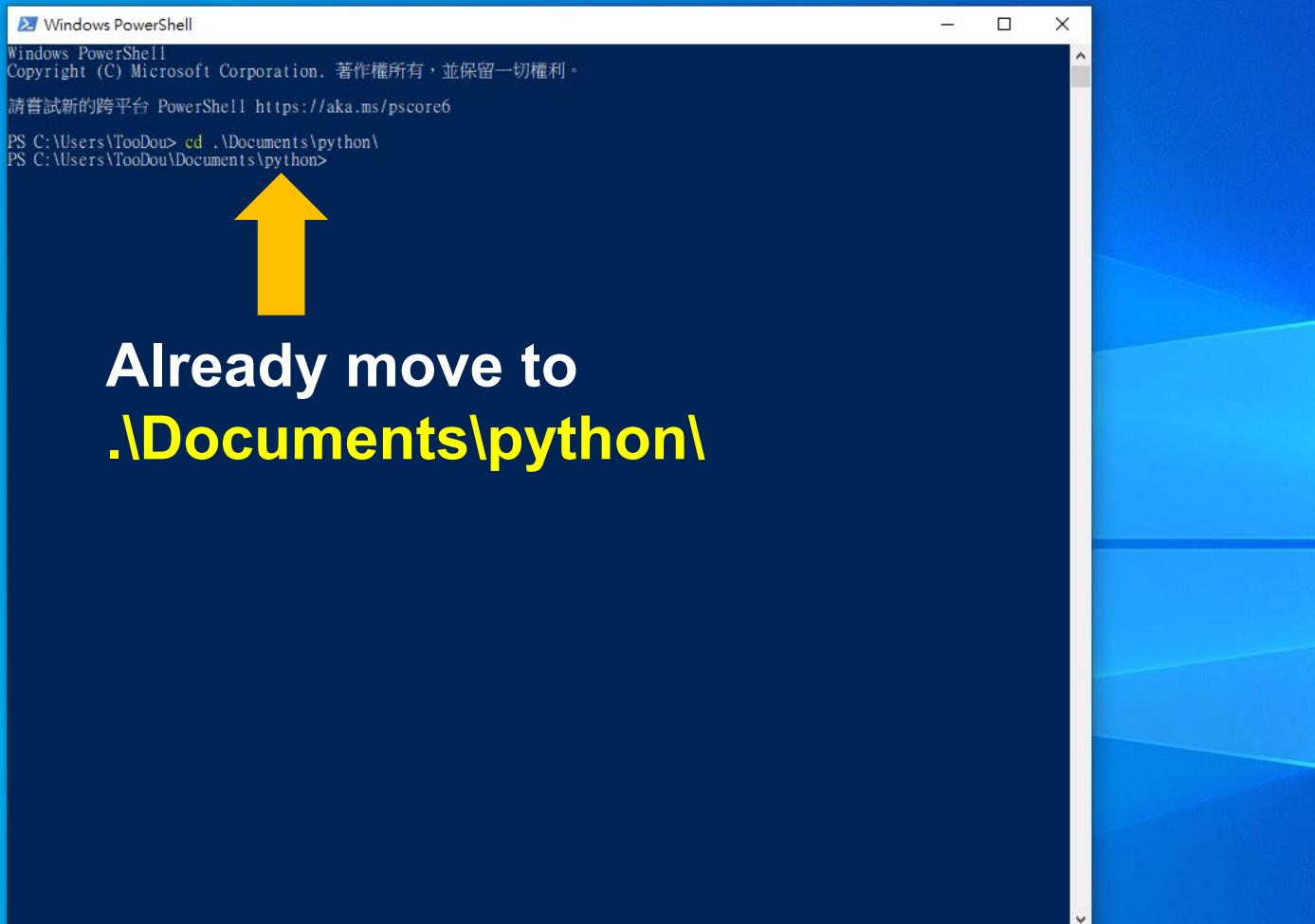
Chun-Hsiang Chan (2025)





```
Windows PowerShell
Copyright (C) Microsoft Corporation. 著作權所有，並保留一切權利。
請嘗試新的跨平台 PowerShell https://aka.ms/pscore6
PS C:\Users\TooDou> cd .\Documents\python\
```

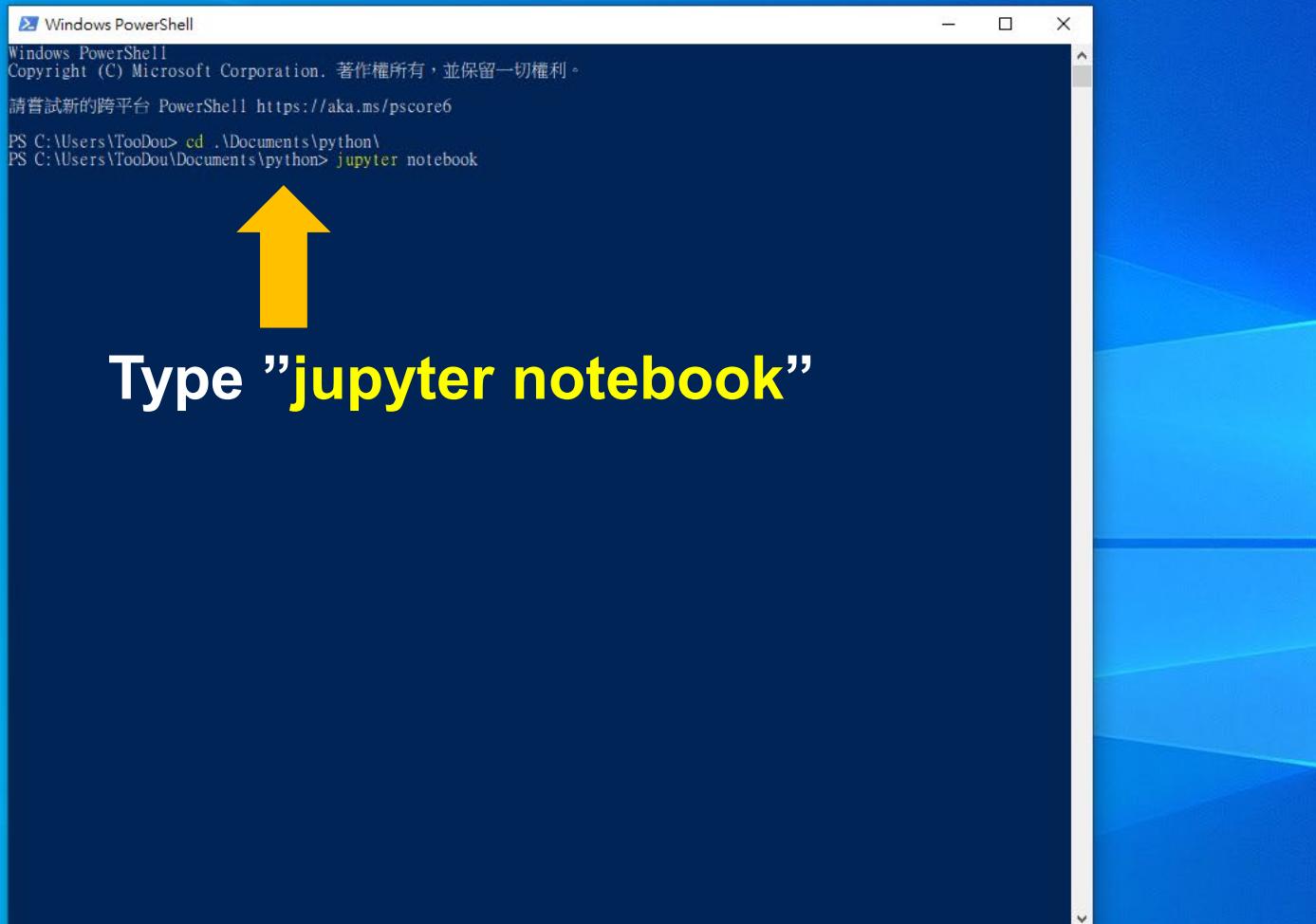
cd .\Documents\python\



A screenshot of a Windows PowerShell window titled "Windows PowerShell". The window shows the following text:
Windows PowerShell
Copyright (C) Microsoft Corporation. 著作權所有，並保留一切權利。
請嘗試新的跨平台 PowerShell <https://aka.ms/pscore6>
PS C:\Users\TooDou> cd ..\Documents\python\
PS C:\Users\TooDou\Documents\python>

A large yellow arrow points upwards from the text "Already move to .\Documents\python\" towards the PowerShell window.

**Already move to
.Documents\python**



Windows PowerShell

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請嘗試新的跨平台 PowerShell <https://aka.ms/pscore6>

```
PS C:\Users\TooDou> cd ..\Documents\python\  
PS C:\Users\TooDou\Documents\python> jupyter notebook
```



Read the migration plan to Notebook 7 to learn about the new features and the actions to take if you are using extensions.

https://jupyter-notebook.readthedocs.io/en/latest/migrate_to_notebook7.html

Please note that updating to Notebook 7 might break some of your extensions.

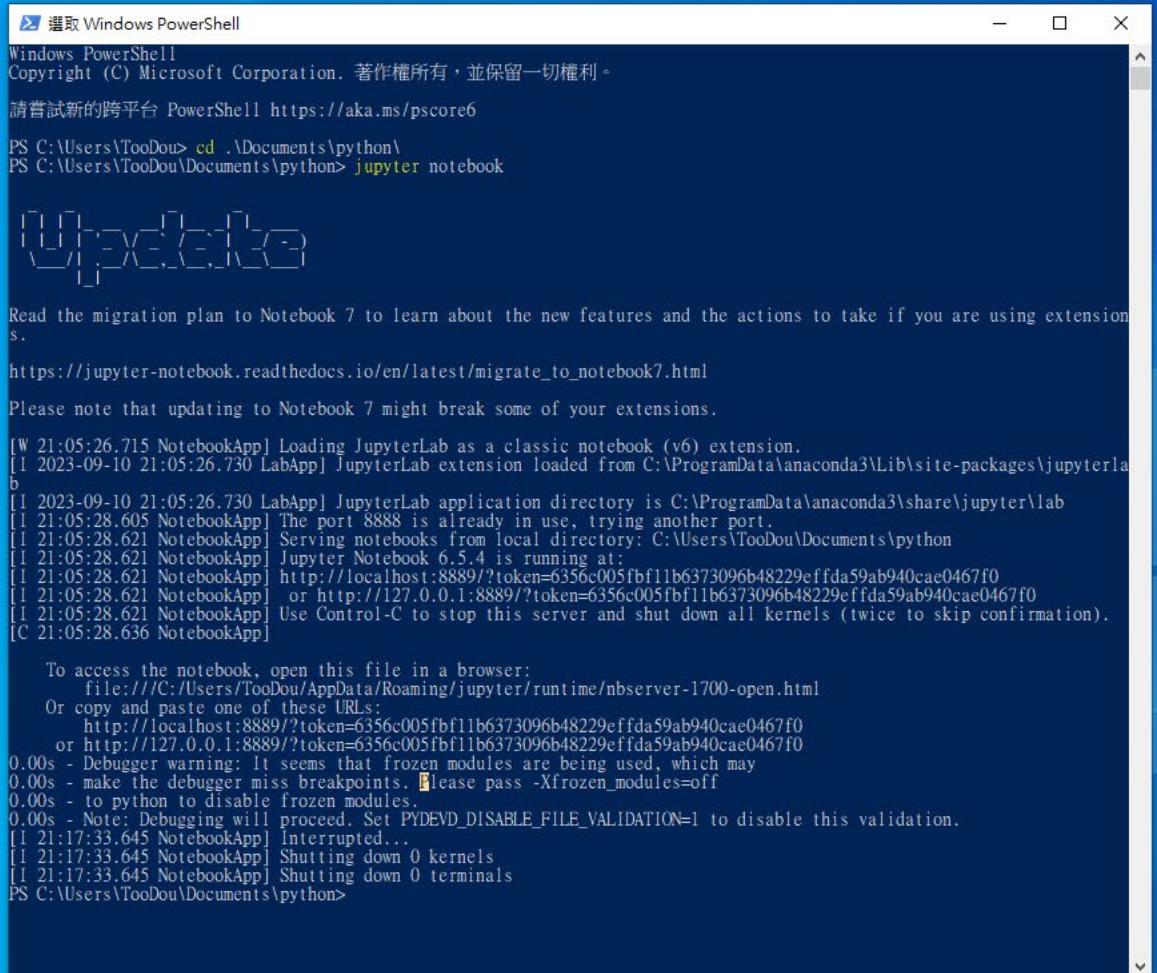
```
[W 21:05:26.715 NotebookApp] Loading JupyterLab as a classic notebook (v6) extension.  
[I 2023-09-10 21:05:26.730 LabApp] JupyterLab extension loaded from C:\ProgramData\anaconda3\Lib\site-packages\jupyterlab  
[I 2023-09-10 21:05:26.730 LabApp] JupyterLab application directory is C:\ProgramData\anaconda3\share\jupyter\lab  
[I 21:05:28.605 NotebookApp] The port 8888 is already in use, trying another port.  
[I 21:05:28.621 NotebookApp] Serving notebooks from local directory: C:\Users\TooDou\Documents\python  
[I 21:05:28.621 NotebookApp] Jupyter Notebook 6.5.4 is running at:  
[I 21:05:28.621 NotebookApp] http://localhost:8889/?token=6356c005fbf1b6373096b48229effda59ab940cae0467f0  
[I 21:05:28.621 NotebookApp] or http://127.0.0.1:8889/?token=6356c005fbf1b6373096b48229effda59ab940cae0467f0  
[I 21:05:28.621 NotebookApp] Use Control-C to stop this server and shut down all kernels (twice to skip confirmation).  
[C 21:05:28.636 NotebookApp]
```

To access the notebook, open this file in a browser:
`file:///C:/Users/TooDou/AppData/Roaming/jupyter/runtime/nbserver-1700-open.html`

Or copy and paste one of these URLs:
`http://localhost:8889/?token=6356c005fbf1b6373096b48229effda59ab940cae0467f0`
`or http://127.0.0.1:8889/?token=6356c005fbf1b6373096b48229effda59ab940cae0467f0`

0.00s - Debugger warning: It seems that frozen modules are being used, which may
0.00s - make the debugger miss breakpoints. Please pass `-Xrozen_modules=off`
0.00s - to python to disable frozen modules.
0.00s - Note: Debugging will proceed. Set `PYDEV_DISABLE_FILE_VALIDATION=1` to disable this validation.

Successfully Open



選取 Windows PowerShell

Windows PowerShell
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請嘗試新的跨平台 PowerShell <https://aka.ms/pscore6>

PS C:\Users\TooDou> cd .\Documents\python\

PS C:\Users\TooDou\Documents\python> jupyter notebook

[| | |] - - [|] - - [|]
[\ /] - - [\ /] - - [\ /]

Read the migration plan to Notebook 7 to learn about the new features and the actions to take if you are using extensions.

https://jupyter-notebook.readthedocs.io/en/latest/migrate_to_notebook7.html

Please note that updating to Notebook 7 might break some of your extensions.

[W 21:05:26.715 NotebookApp] Loading JupyterLab as a classic notebook (v6) extension.
[I 2023-09-10 21:05:26.730 LabApp] JupyterLab extension loaded from C:\ProgramData\anaconda3\Lib\site-packages\jupyterlab
[I 2023-09-10 21:05:26.730 LabApp] JupyterLab application directory is C:\ProgramData\anaconda3\share\jupyter\lab
[I 21:05:28.605 NotebookApp] The port 8888 is already in use, trying another port.
[I 21:05:28.621 NotebookApp] Serving notebooks from local directory: C:\Users\TooDou\Documents\python
[I 21:05:28.621 NotebookApp] Jupyter Notebook 6.5.4 is running at:
[I 21:05:28.621 NotebookApp] http://localhost:8889/?token=6356c005fbf11b6373096b48229effda59ab940cae0467f0
[I 21:05:28.621 NotebookApp] or http://127.0.0.1:8889/?token=6356c005fbf11b6373096b48229effda59ab940cae0467f0
[I 21:05:28.621 NotebookApp] Use Control-C to stop this server and shut down all kernels (twice to skip confirmation).
[C 21:05:28.636 NotebookApp]

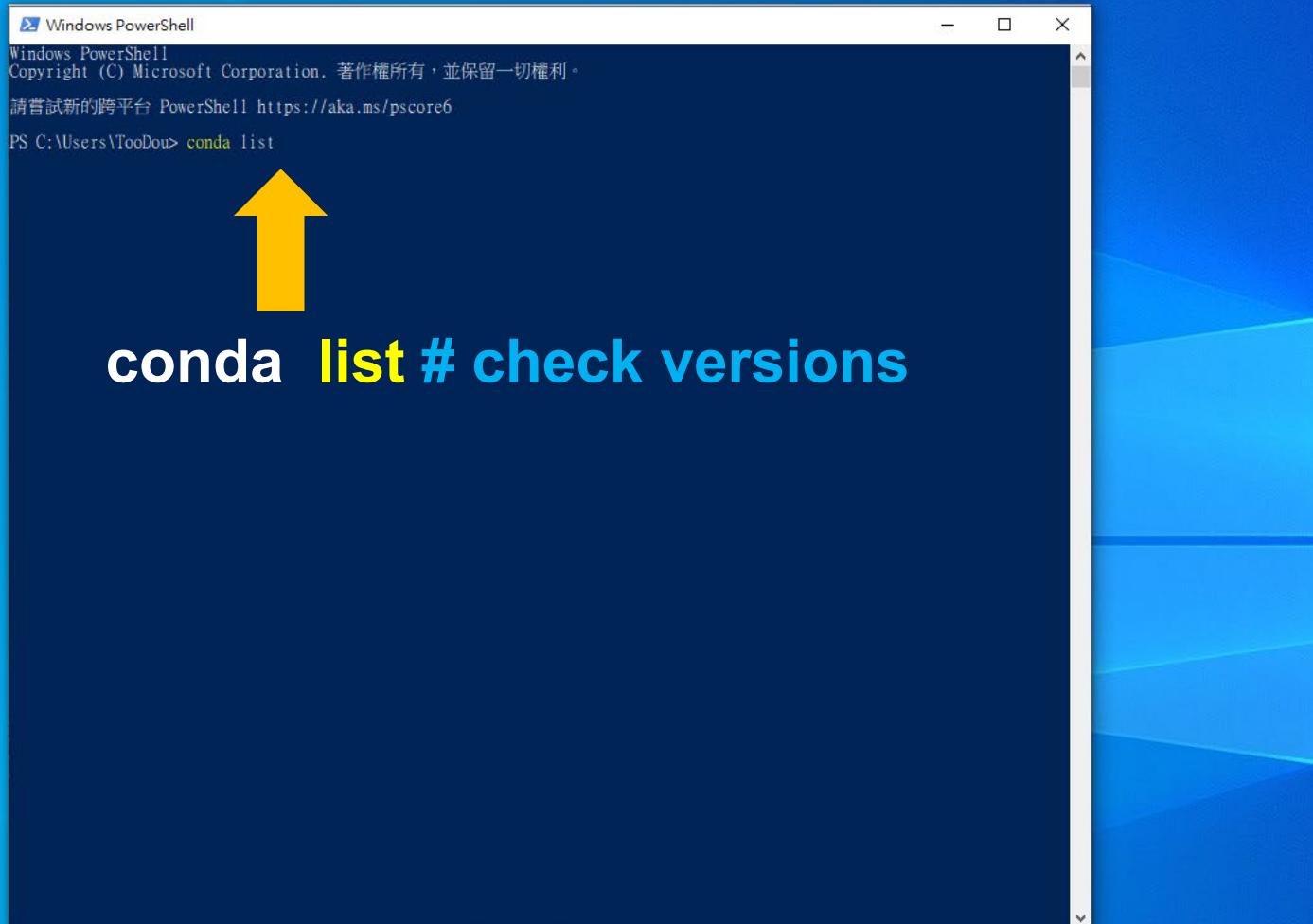
To access the notebook, open this file in a browser:
file:///C:/Users/TooDou/AppData/Roaming/jupyter/runtime/nbserver-1700-open.html
Or copy and paste one of these URLs:
http://localhost:8889/?token=6356c005fbf11b6373096b48229effda59ab940cae0467f0
or http://127.0.0.1:8889/?token=6356c005fbf11b6373096b48229effda59ab940cae0467f0

0.00s - Debugger warning: It seems that frozen modules are being used, which may
0.00s - make the debugger miss breakpoints. Please pass -Xfrozen_modules=off
0.00s - to python to disable frozen modules.

0.00s - Note: Debugging will proceed. Set PYDEV_DISABLE_FILE_VALIDATION=1 to disable this validation.

[I 21:17:33.645 NotebookApp] Interrupted...
[I 21:17:33.645 NotebookApp] Shutting down 0 kernels
[I 21:17:33.645 NotebookApp] Shutting down 0 terminals

PS C:\Users\TooDou\Documents\python>



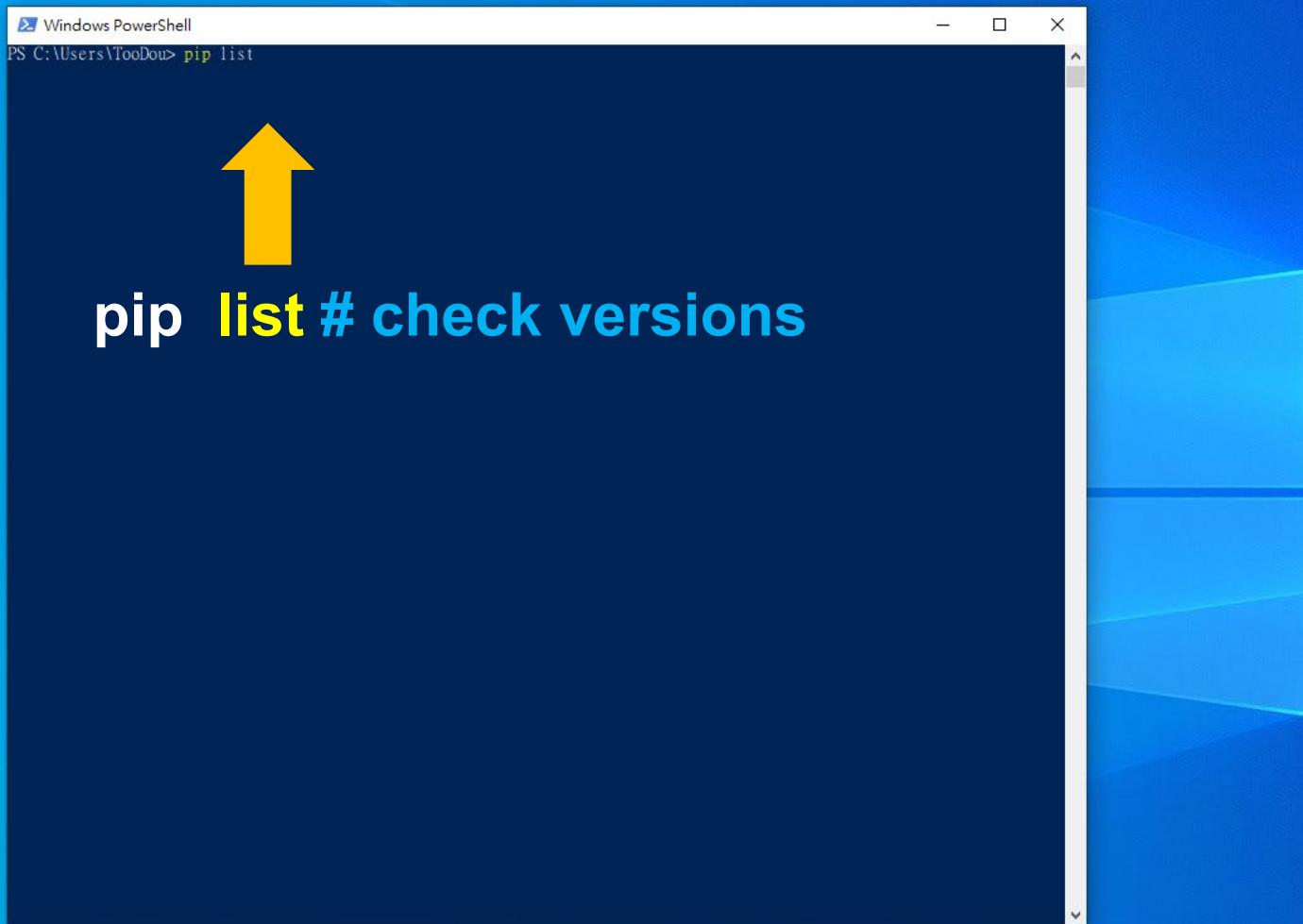
A screenshot of a Windows PowerShell window titled "Windows PowerShell". The window shows the following text:
Windows PowerShell
Copyright (C) Microsoft Corporation. 著作權所有，並保留一切權利。
請嘗試新的跨平台 PowerShell <https://aka.ms/pscore6>
PS C:\Users\TooDou> **conda list**

A large yellow arrow points upwards from the word "list" in the command to the text "check versions" below it.

conda list # check versions

```
Windows PowerShell
toolz          0.12.0      py311haha95532_0
tornado        6.3.2       py311h2bbff1b_0
tqdm          4.65.0      py311h746a85d_0
traitlets      5.7.1       py311haha95532_0
transformers    2.1.1      pyhdseb1b0_0
twisted         22.10.0     py311h2bbff1b_0
twisted-iocpsupport 1.0.2       py311h2bbff1b_0
typing-extensions 4.7.1      py311haha95532_0
typing_extensions 4.7.1      py311haha95532_0
tzdata          2023c      h04d1e81_0
uc-micro-py    1.0.1       py311haha95532_0
ujson           5.4.0       py311hd77b12b_0
unidecode       1.2.0      pyhd3eb1b0_0
urllib3         1.26.16     py311haha95532_0
utf8proc        2.6.1       h2bbff1b_0
vc              14.2        h21ff451_1
vs2015_runtime 14.27.29016   h5e58377_2
w3lib           1.21.0      pyhd3eb1b0_0
watchdog        2.1.6       py311haha95532_0
wcwidth          0.2.5      pyhd3eb1b0_0
webencodings    0.5.1       py311haha95532_1
websocket-client 0.58.0      py311haha95532_4
werkzeug        2.2.3       py311haha95532_0
whatsthepatch   1.0.2       py311haha95532_0
wheel            0.38.4      py311haha95532_0
widgetsnbextension 4.0.5      py311haha95532_0
win_inet_pton   1.1.0       py311haha95532_0
winpty          0.4.3       py311haha95532_4
wrapt           1.14.1      py311h2bbff1b_0
xarray          2023.6.0     py311haha95532_0
xlwings         0.29.1      py311haha95532_0
xyzservices     2022.9.0     py311haha95532_1
xz              5.4.2       h8cc25b3_0
y-py             0.5.9       py311hb6bf4ef_0
yaml            0.2.5       he774522_0
yaml-cpp        0.7.0       hd77b12b_1
yapf            0.31.0      pyhd3eb1b0_0
yarl            1.8.1       py311h2bbff1b_0
ypy-websocket   0.8.2       py311haha95532_0
zeromq          4.3.4       hd77b12b_0
zfp              0.5.5       hd77b12b_6
zict            2.2.0       py311haha95532_0
zipp            3.11.0      py311haha95532_0
zlib            1.2.13      h8cc25b3_0
zlib-ng          2.0.7       h2bbff1b_0
zope            1.0         py311haha95532_1
zope.interface  5.4.0       py311h2bbff1b_0
zstandard        0.19.0      py311h2bbff1b_0
zstd             1.5.5       hd43e919_0
PS C:\Users\TooDou>
```

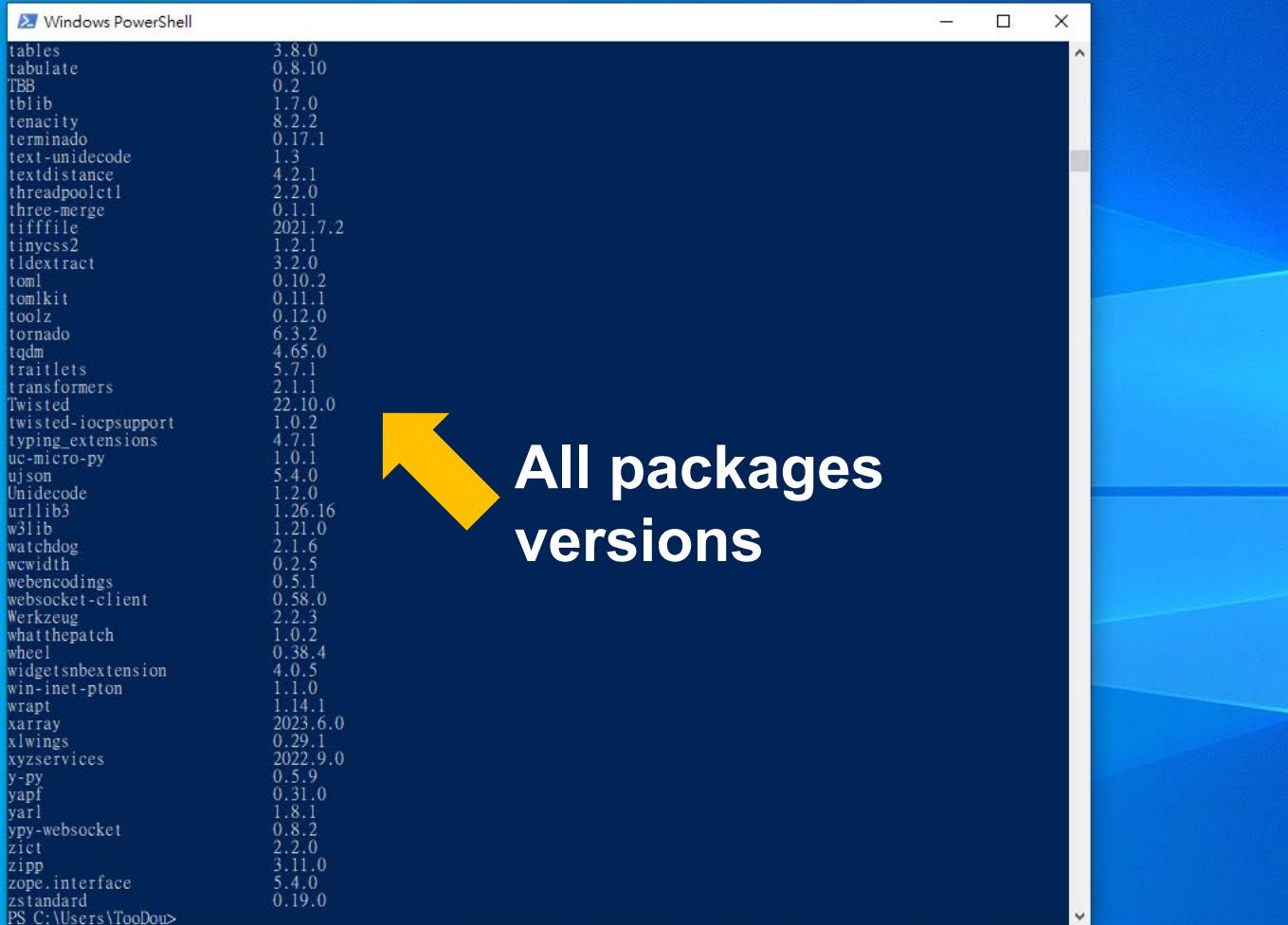
All packages
versions



A screenshot of a Windows PowerShell window titled "Windows PowerShell". The command "PS C:\Users\TooDou> pip list" is entered at the prompt. A large yellow arrow points upwards from the bottom of the slide towards the command text. The text "pip list # check versions" is overlaid in large blue font below the arrow.

```
Windows PowerShell
PS C:\Users\TooDou> pip list
```

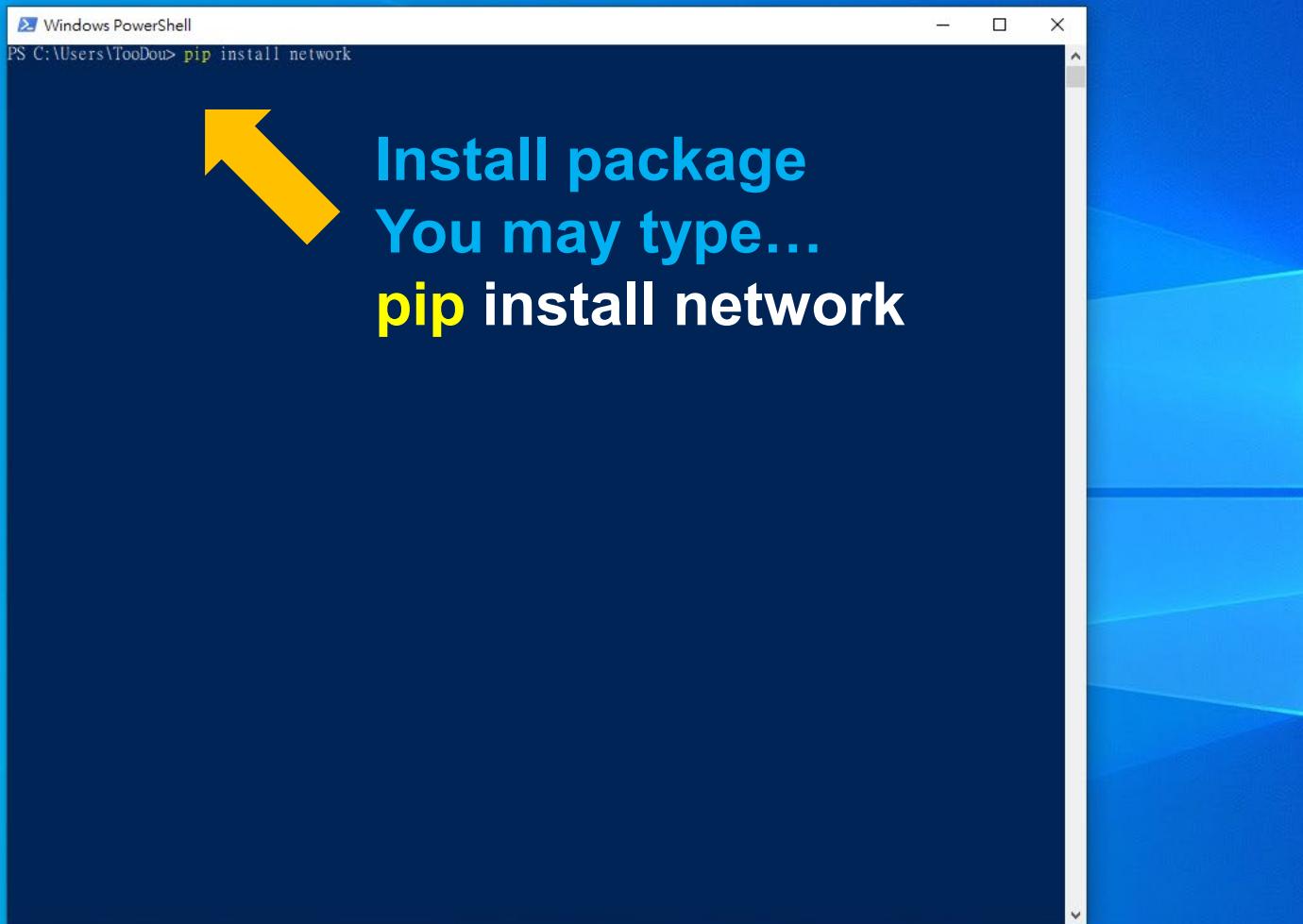
pip list # check versions

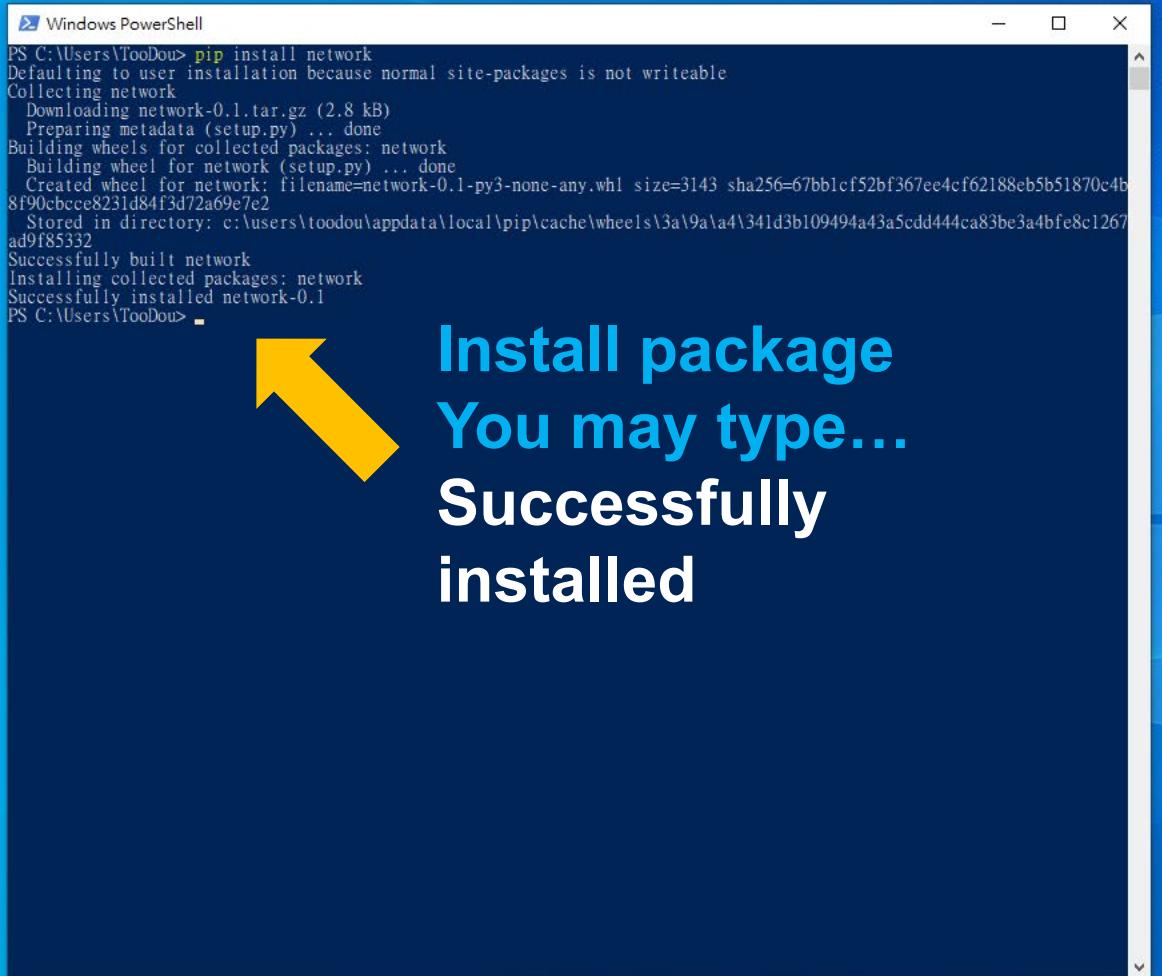


A Windows PowerShell window titled "Windows PowerShell" displays a list of Python package names and their versions. A large yellow arrow points from the left towards the title "All packages versions".

Package	Version
tables	3.8.0
tabulate	0.8.10
TBB	0.2
tblib	1.7.0
tenacity	8.2.2
terminado	0.17.1
text-unidecode	1.3
textdistance	4.2.1
threadpoolctl	2.2.0
three-merge	0.1.1
tifffile	2021.7.2
tinyss2	1.2.1
tldextract	3.2.0
toml	0.10.2
tomlkit	0.11.1
toolz	0.12.0
tornado	6.3.2
tqdm	4.65.0
traitlets	5.7.1
transformers	2.1.1
Twisted	22.10.0
twisted-iocpsupport	1.0.2
typing_extensions	4.7.1
uc-micro-py	1.0.1
ujson	5.4.0
Unidecode	1.2.0
urllib3	1.26.16
w3lib	1.21.0
watchdog	2.1.6
wcwidth	0.2.5
webencodings	0.5.1
websocket-client	0.58.0
Werkzeug	2.2.3
whatthepatch	1.0.2
wheel	0.38.4
widgetsnbextension	4.0.5
win-inet-pton	1.1.0
wrapt	1.14.1
xarray	2023.6.0
xlwings	0.29.1
xyzservices	2022.9.0
y-py	0.5.9
yapf	0.31.0
yarl	1.8.1
ypy-websocket	0.8.2
zict	2.2.0
zipp	3.11.0
zope.interface	5.4.0
zstandard	0.19.0

PS C:\Users\TooDou>

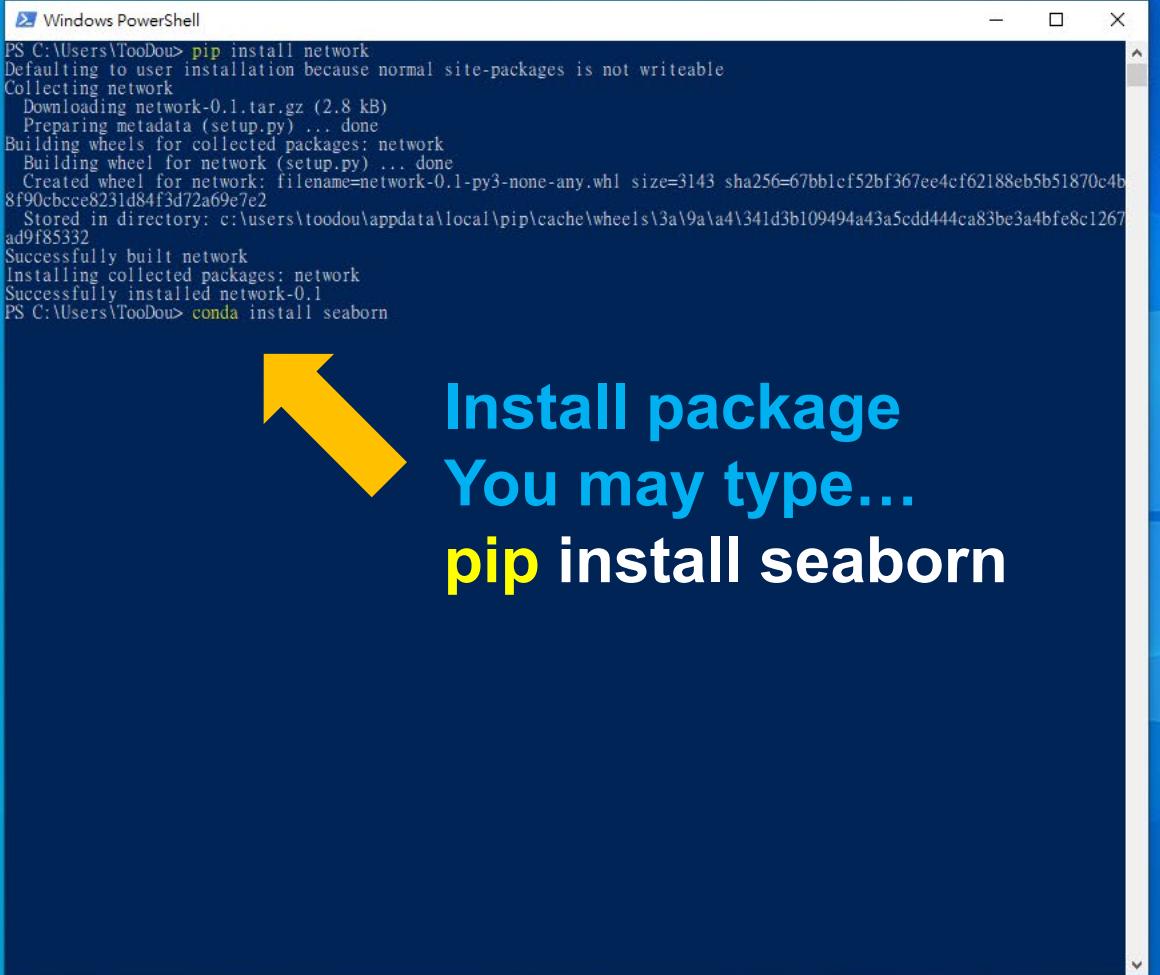




```
Windows PowerShell
PS C:\Users\TooDou> pip install network
Defaulting to user installation because normal site-packages is not writeable
Collecting network
  Downloading network-0.1.tar.gz (2.8 kB)
    Preparing metadata (setup.py) ... done
  Building wheels for collected packages: network
    Building wheel for network (setup.py) ... done
      Created wheel for network: filename=network-0.1-py3-none-any.whl size=3143 sha256=67bb1cf52bf367ee4cf62188cb5b51870c4b8f90cbcce8231d84f3d72a69e7e2
        Stored in directory: c:\users\toodou\appdata\local\pip\cache\wheels\3a\9a\4a\341d3b109494a43a5cd444ca83be3a4bfe8c1267ad9f85332
Successfully built network
Installing collected packages: network
Successfully installed network-0.1
PS C:\Users\TooDou>
```

Install package
You may type...
Successfully
installed

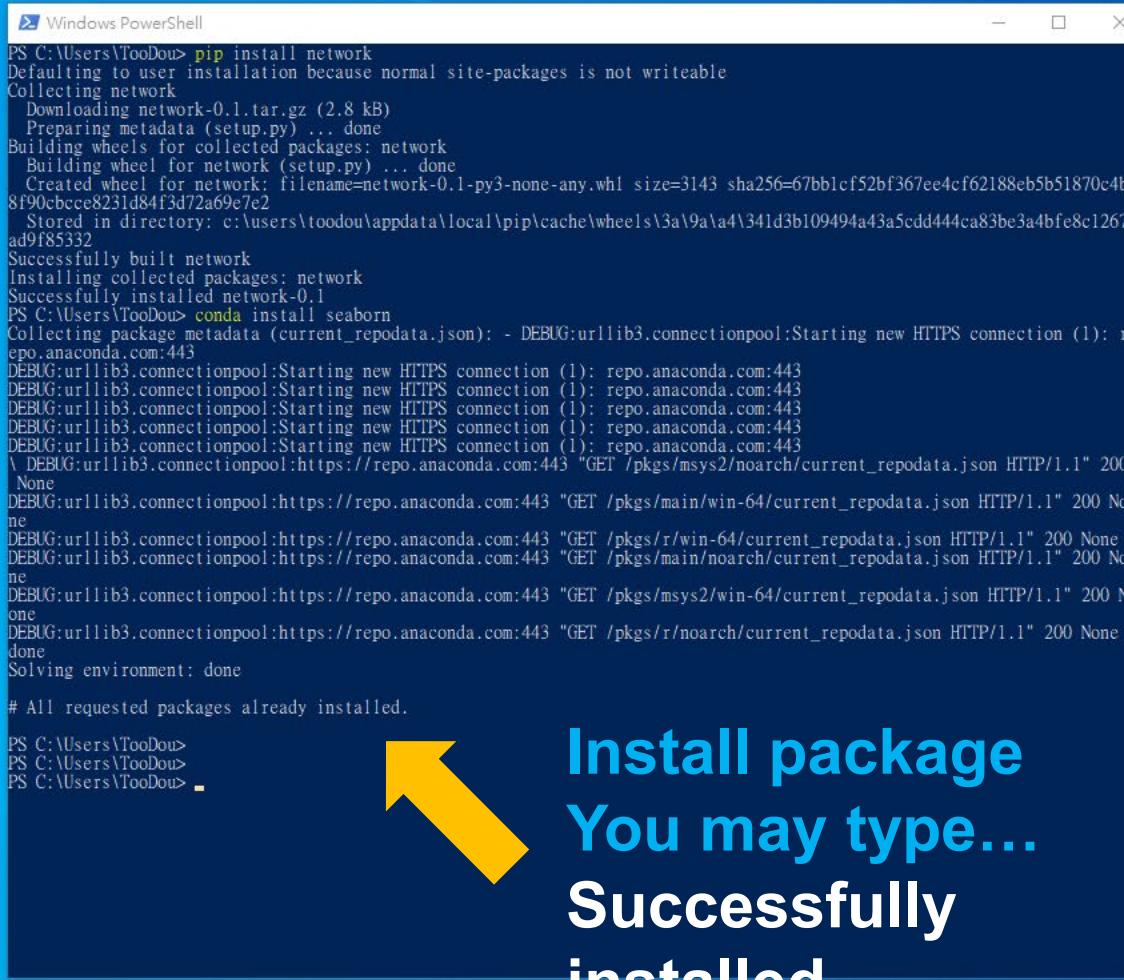
A large yellow arrow points from the text "You may type..." towards the PowerShell window.



A screenshot of a Windows PowerShell window titled "Windows PowerShell". The window shows command-line output for installing the "network" package using pip:

```
PS C:\Users\TooDou> pip install network
Defaulting to user installation because normal site-packages is not writeable
Collecting network
  Downloading network-0.1.tar.gz (2.8 kB)
    Preparing metadata (setup.py) ... done
  Building wheels for collected packages: network
    Building wheel for network (setup.py) ... done
      Created wheel for network: filename=network-0.1-py3-none-any.whl size=3143 sha256=67bb1cf52bf367ee4cf62188cb5b51870c4b8190cbcce8231d8413d72a69e7e2
        Stored in directory: c:\users\toodou\appdata\local\pip\cache\wheels\3a\9a\43\341d3b109494a43a5cdd44ca83be3a4bfe8c1267ad9f85332
Successfully built network
Installing collected packages: network
Successfully installed network-0.1
PS C:\Users\TooDou> conda install seaborn
```

Overlaid on the bottom right of the window is a large yellow arrow pointing upwards and to the left. To the right of the arrow, the text "Install package You may type..." is displayed in white, followed by "pip install seaborn" in yellow.



```
PS C:\Users\TooDou> pip install network
Defaulting to user installation because normal site-packages is not writeable
Collecting network
  Downloading network-0.1.tar.gz (2.8 kB)
    Preparing metadata (setup.py) ... done
Building wheels for collected packages: network
  Building wheel for network (setup.py) ... done
    Created wheel for network: filename=network-0.1-py3-none-any.whl size=3143 sha256=67bb1cf52bf367ee4cf62188cb5b51870c4b8190cbcce8231d84f3d72a69e7e2
      Stored in directory: c:\users\toodou\appdata\local\pip\cache\wheels\3a\9a\4a\341d3b109494a43a5cd444ca83be3a4bfe8c1267ad9f85332
Successfully built network
Installing collected packages: network
Successfully installed network-0.1
PS C:\Users\TooDou> conda install seaborn
Collecting package metadata (current_reodata.json): - DEBUG:urlllib3.connectionpool:Starting new HTTPS connection (1): r
epo.anaconda.com:443
DEBUG:urlllib3.connectionpool:Starting new HTTPS connection (1): repo.anaconda.com:443
\\ DEBUG:urlllib3.connectionpool:https://repo.anaconda.com:443 "GET /pkgs/msys2/noarch/current_reodata.json HTTP/1.1" 200
None
DEBUG:urlllib3.connectionpool:https://repo.anaconda.com:443 "GET /pkgs/main/win-64/current_reodata.json HTTP/1.1" 200 No
ne
DEBUG:urlllib3.connectionpool:https://repo.anaconda.com:443 "GET /pkgs/r/win-64/current_reodata.json HTTP/1.1" 200 None
DEBUG:urlllib3.connectionpool:https://repo.anaconda.com:443 "GET /pkgs/main/noarch/current_reodata.json HTTP/1.1" 200 No
ne
DEBUG:urlllib3.connectionpool:https://repo.anaconda.com:443 "GET /pkgs/msys2/win-64/current_reodata.json HTTP/1.1" 200 N
one
DEBUG:urlllib3.connectionpool:https://repo.anaconda.com:443 "GET /pkgs/r/noarch/current_reodata.json HTTP/1.1" 200 None
done
Solving environment: done

# All requested packages already installed.

PS C:\Users\TooDou>
PS C:\Users\TooDou>
PS C:\Users\TooDou>
```

Install package
You may type...
Successfully
installed



About

Documentation

Downloads

GUI Clients

Logos

Community

The entire [Pro Git book](#) written by Scott Chacon and Ben Straub is available to [read online for free](#). Dead tree versions are available on [Amazon.com](#).

Downloads



Older releases are available and the [Git source repository](#) is on GitHub.



GUI Clients

Git comes with built-in GUI tools ([git-gui](#), [gitk](#)), but there are several third-party tools for users looking for a platform-specific experience.

[View GUI Clients →](#)

Logos

Various Git logos in PNG (bitmap) and EPS (vector) formats are available for use in online and print projects.

[View Logos →](#)

Git via Git

If you already have Git installed, you can get the latest development version via Git itself:

```
git clone https://github.com/git/git
```

You can also always browse the current contents of the git repository using the [web interface](#).



About this site

Patches, suggestions, and comments are welcome.

Git is a member of Software Freedom Conservancy

When you need something from GitHub, and you will need this ...

[About](#)[Documentation](#)[Downloads](#)[GUI Clients](#)
[Logos](#)[Community](#)

The entire [Pro Git book](#) written by Scott Chacon and Ben Straub is available to [read online for free](#). Dead tree versions are available on [Amazon.com](#).

Download for Windows

[Click here to download](#) the latest (2.42.0) 64-bit version of **Git for Windows**. This is the most recent [maintained build](#). It was released **11 days ago**, on 2023-08-30.

Other Git for Windows downloads

[Standalone Installer](#)[32-bit Git for Windows Setup.](#)[64-bit Git for Windows Setup.](#)[Portable \("thumbdrive edition"\)](#)[32-bit Git for Windows Portable.](#)[64-bit Git for Windows Portable.](#)

Using winget tool

Install [winget tool](#) if you don't already have it, then type this command in command prompt or Powershell.

```
winget install --id Git.Git -e --source winget
```

The current source code release is version 2.42.0. If you want the newer version, you can build it from [the source code](#).

Now What?

Now that you have downloaded Git, it's time to start using it.



Read the Book

Dive into the Pro Git book and learn at your own pace.



Download a GUI

Several free and commercial GUI tools are available for the Windows platform.

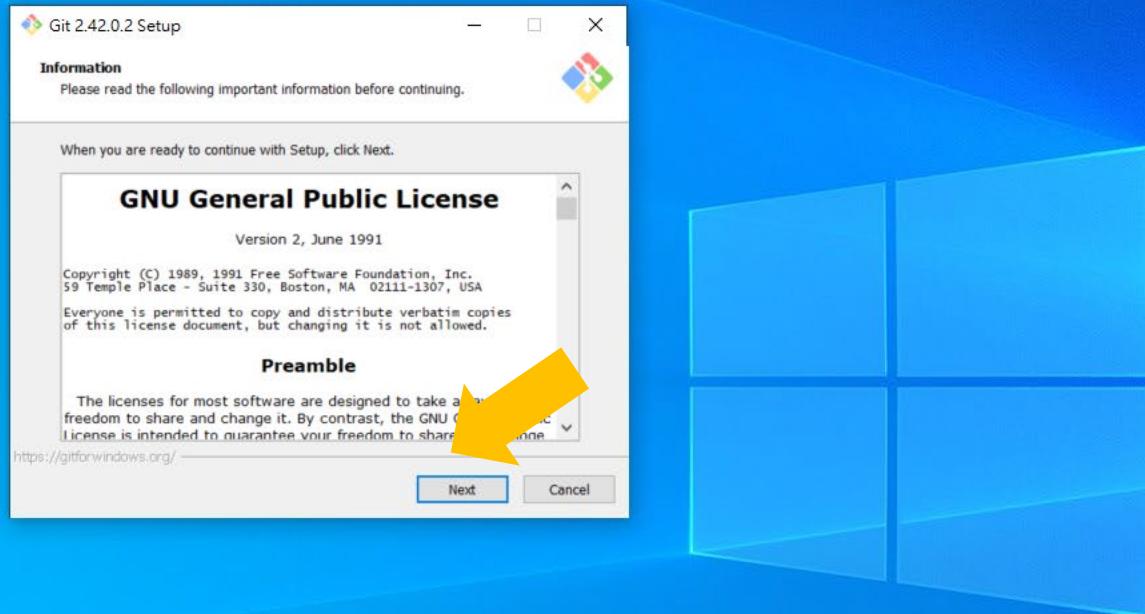


Get Involved

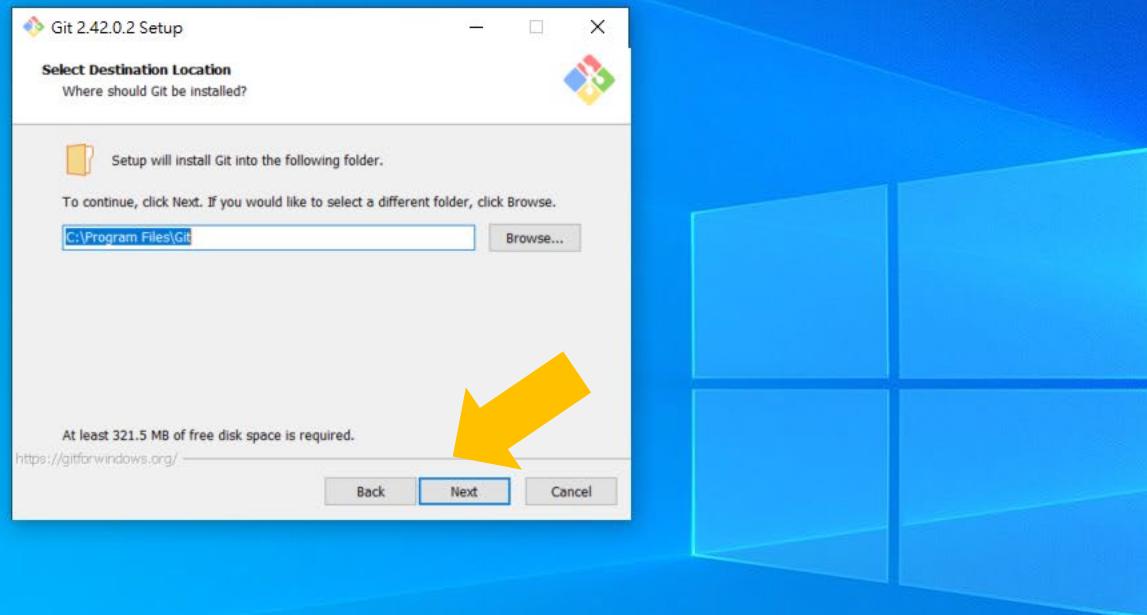
A knowledgeable Git community is available to answer your questions.

Download here
If your computer is
windows ...

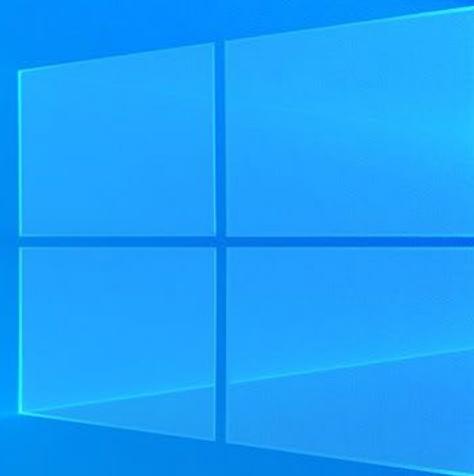
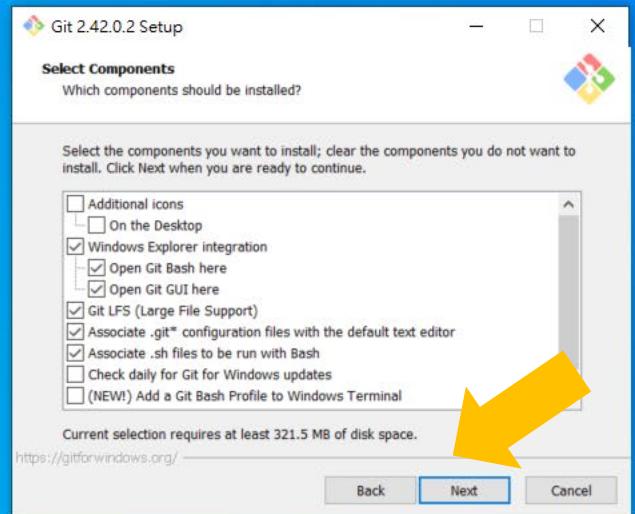
Click “Next”



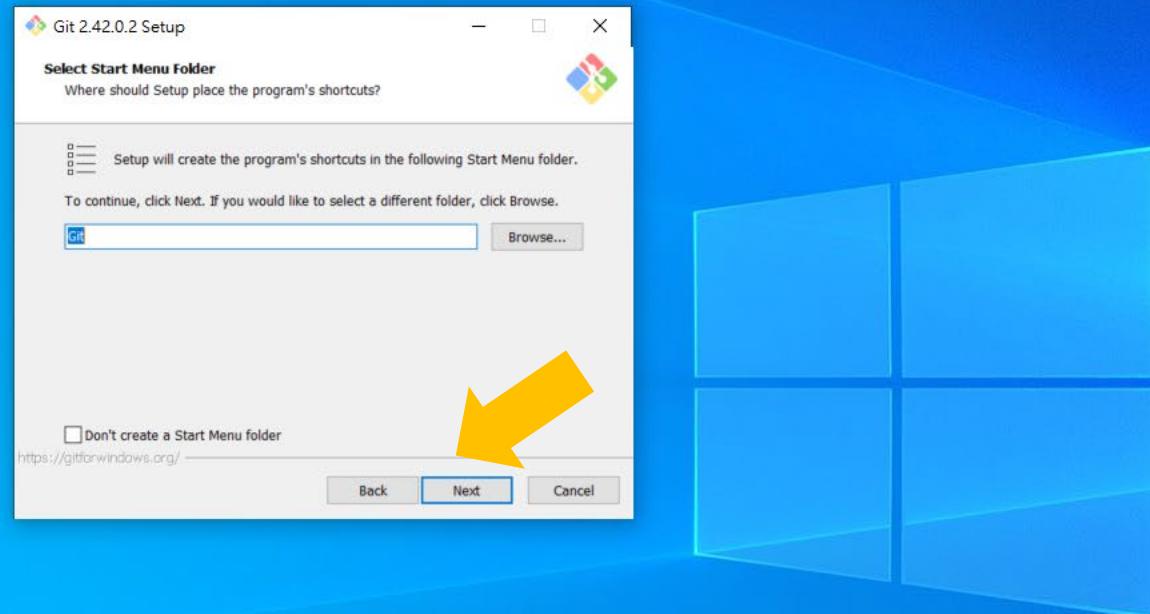
Click “Next”



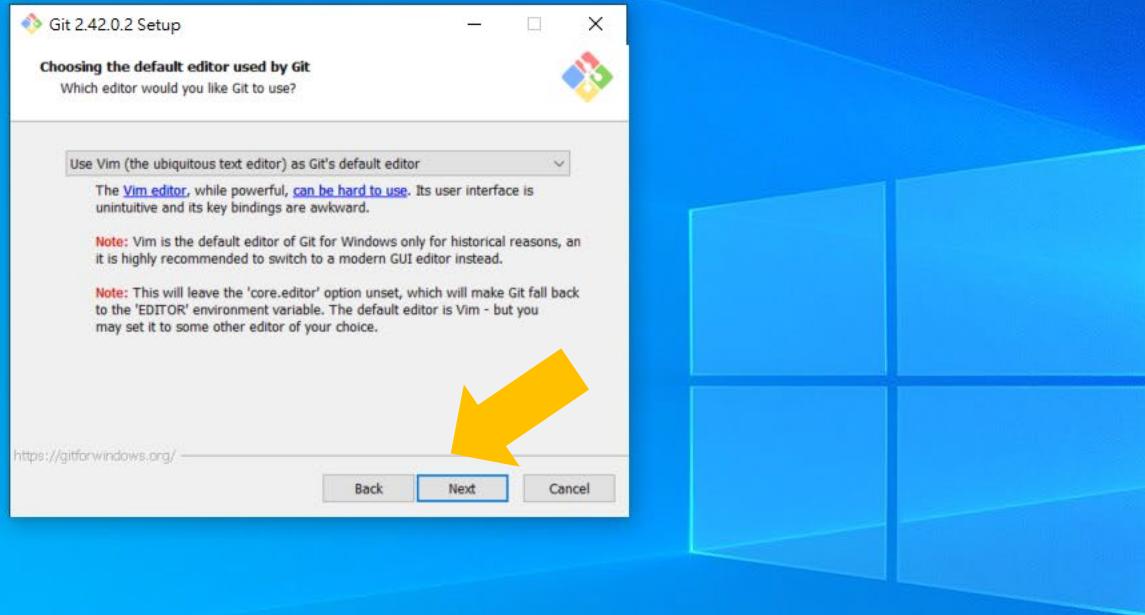
Click “Next”



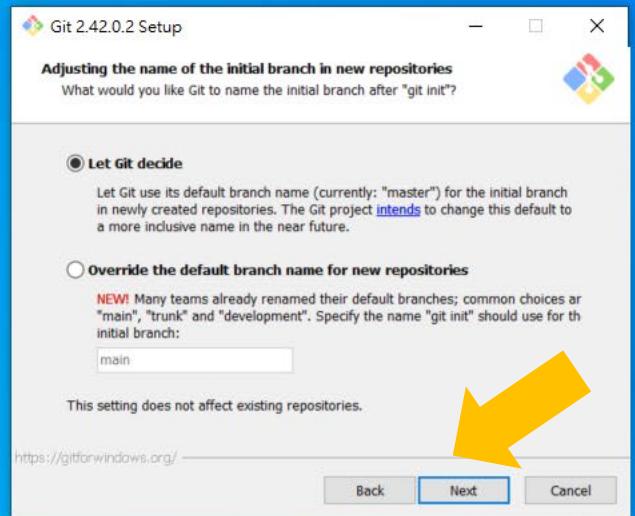
Click “Next”



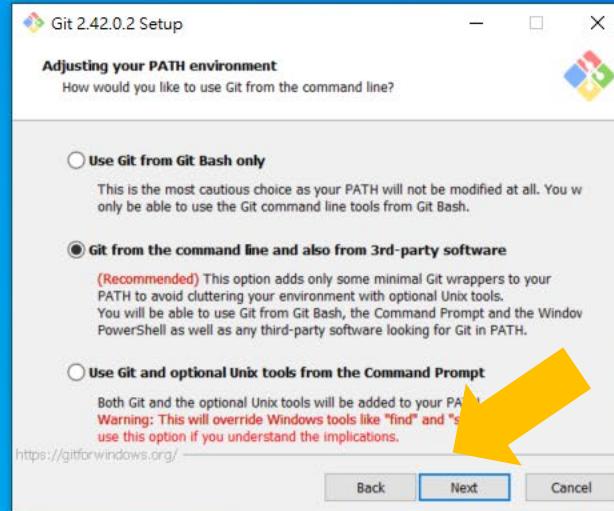
Click “Next”



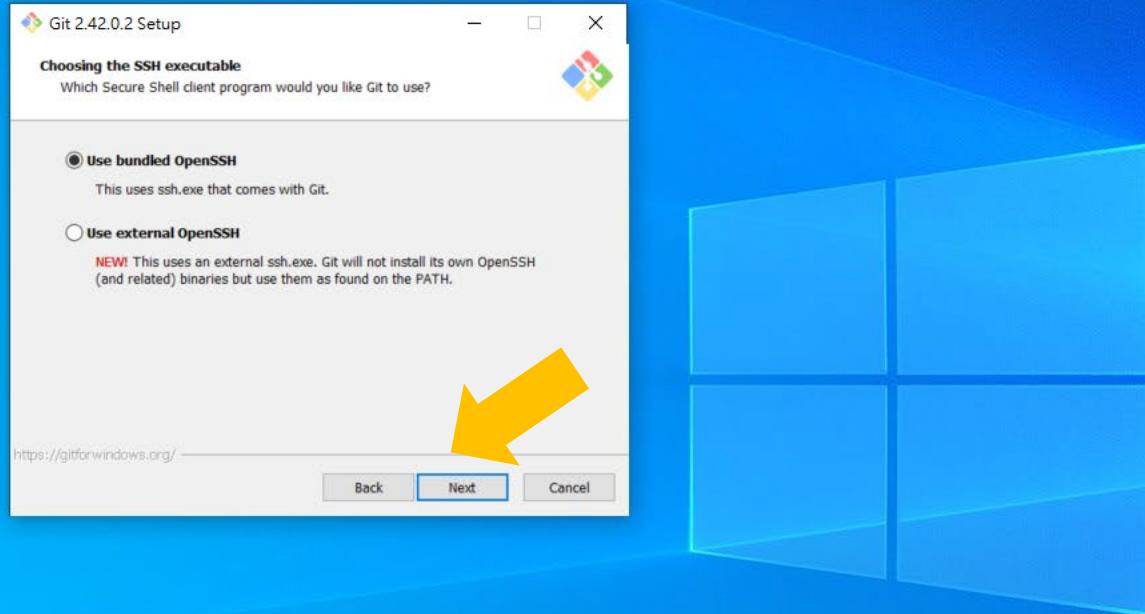
Click “Next”



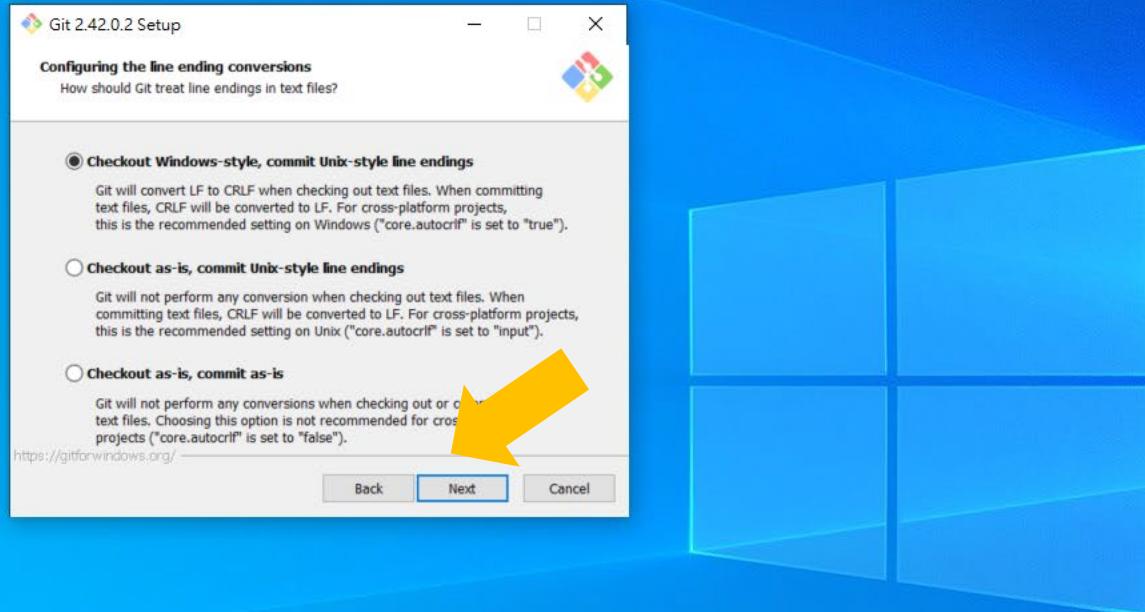
Click “Next”



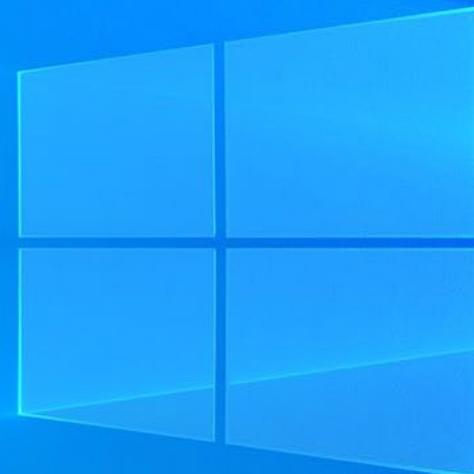
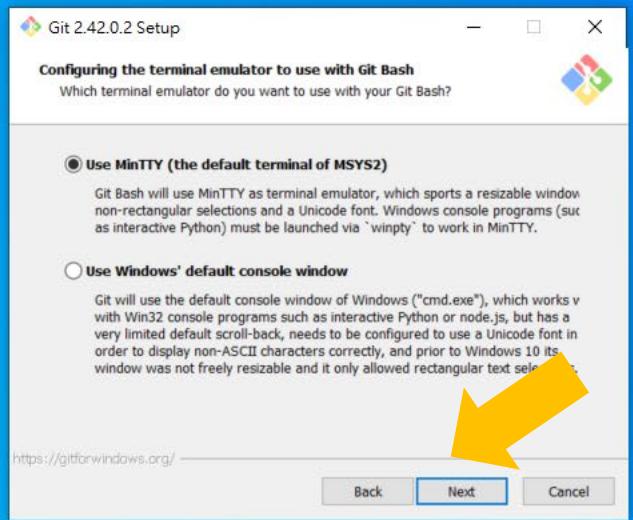
Click “Next”



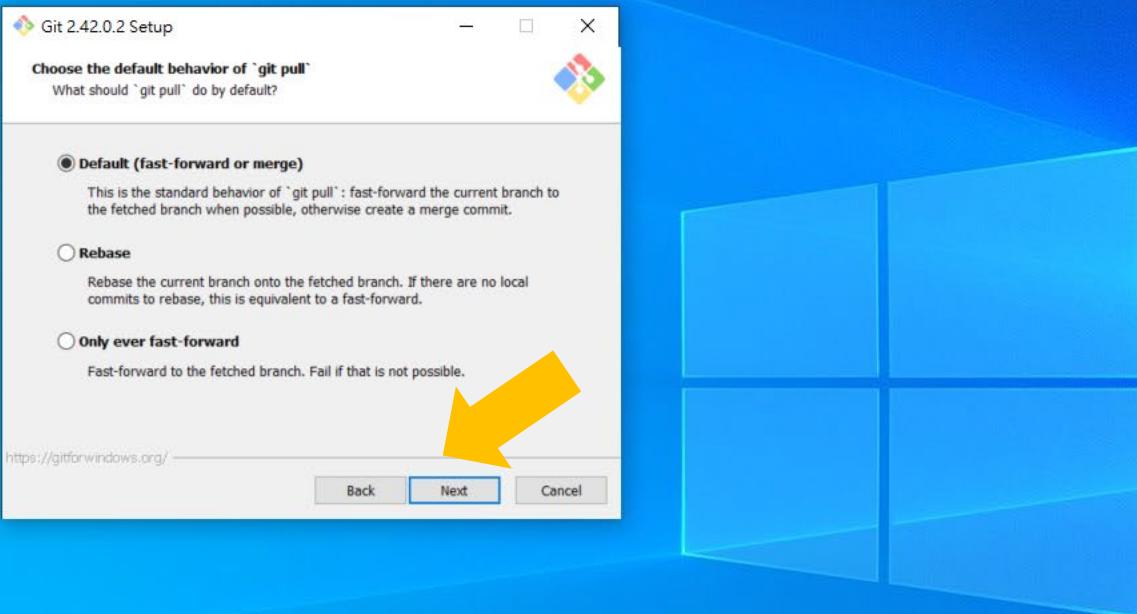
Click “Next”



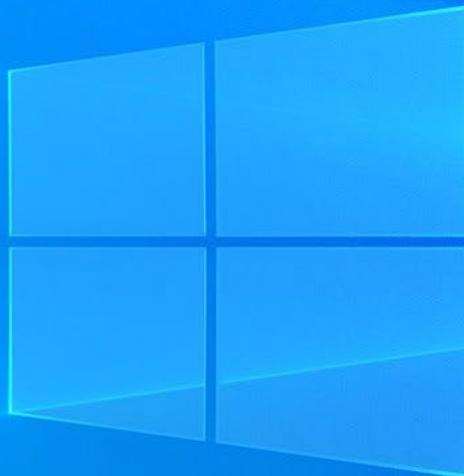
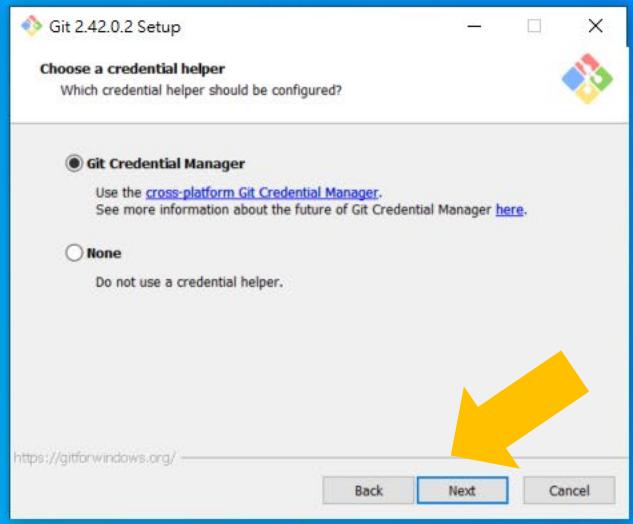
Click “Next”



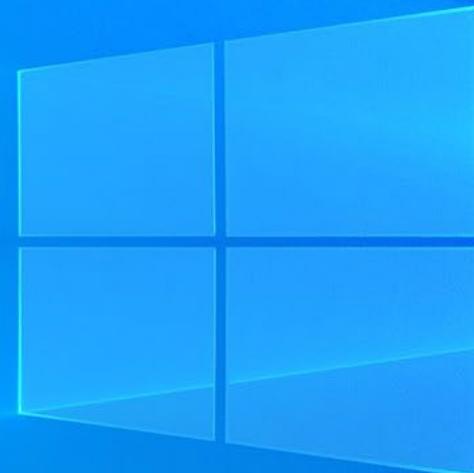
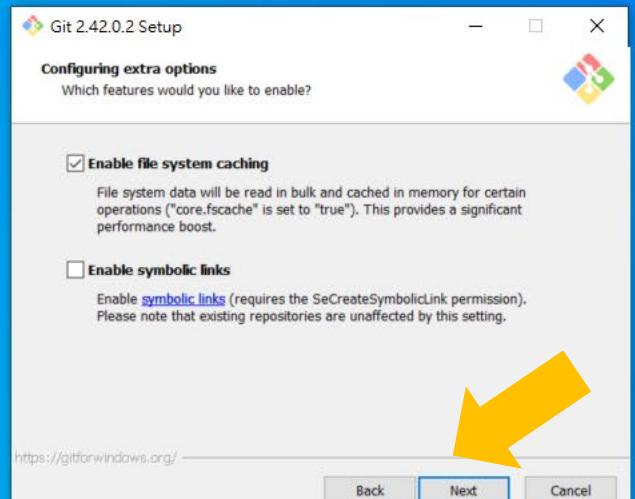
Click “Next”



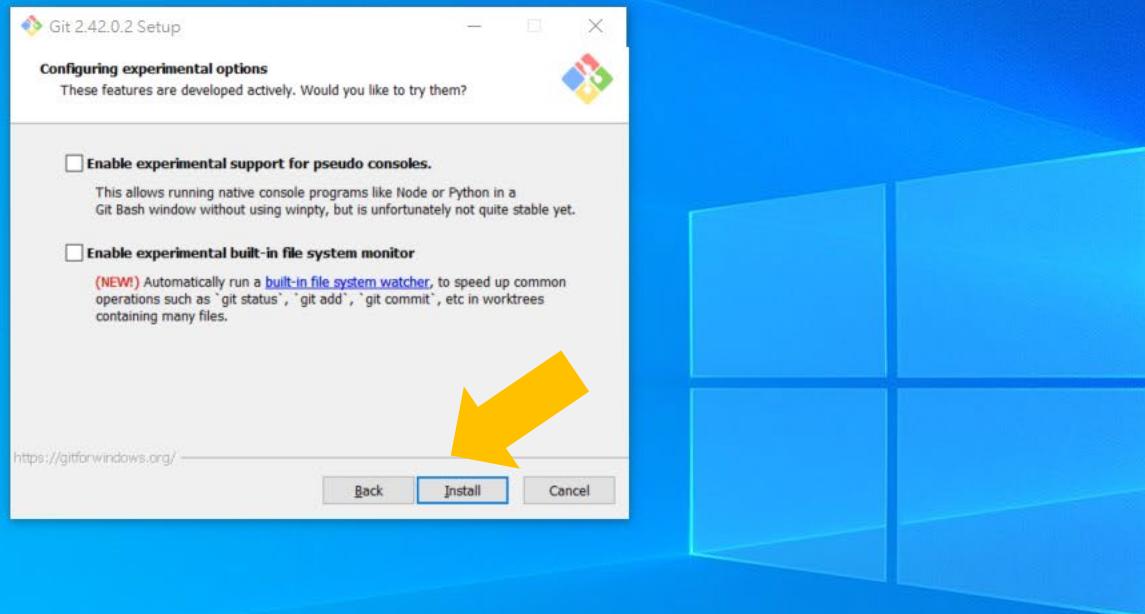
Click “Next”



Click “Next”

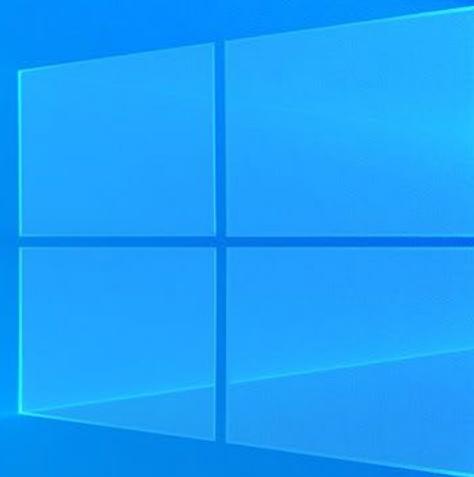
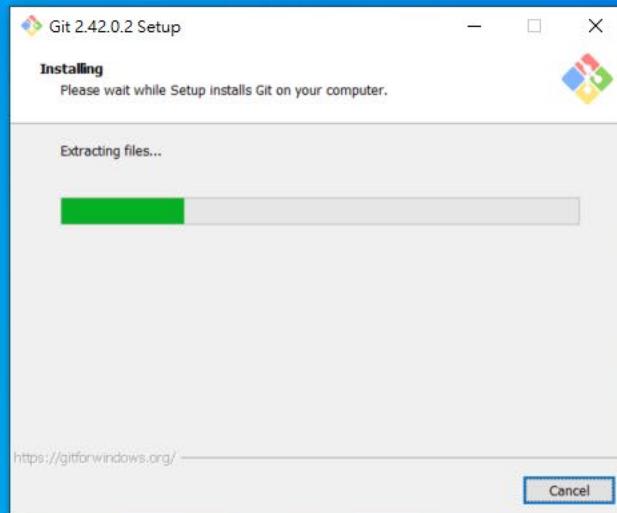


Click “Install”



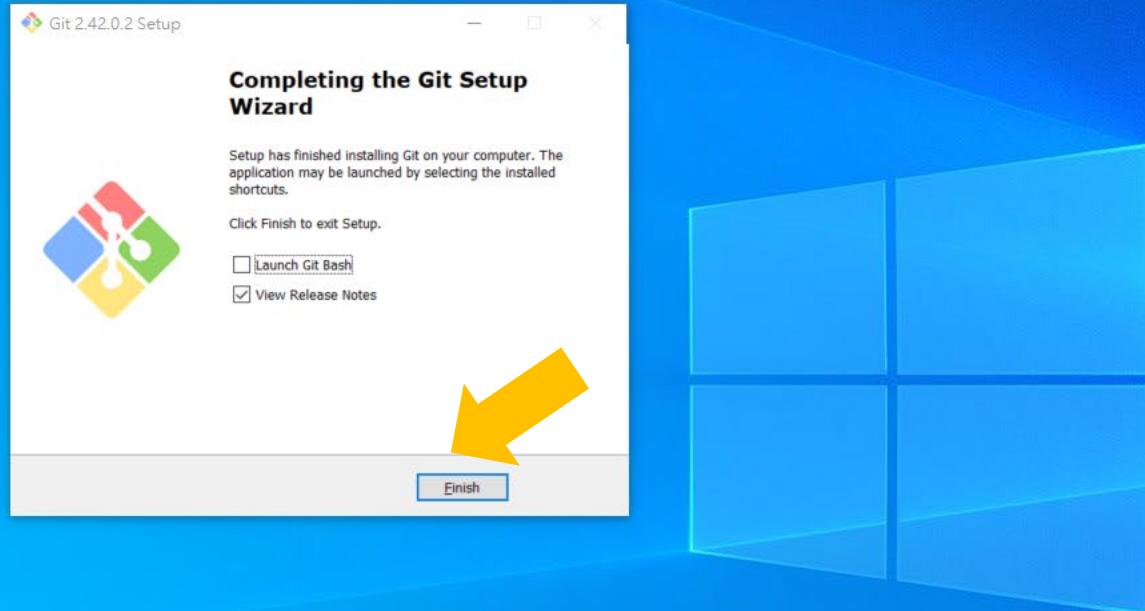
Chun-Hsiang Chan (2025)

Installing Git



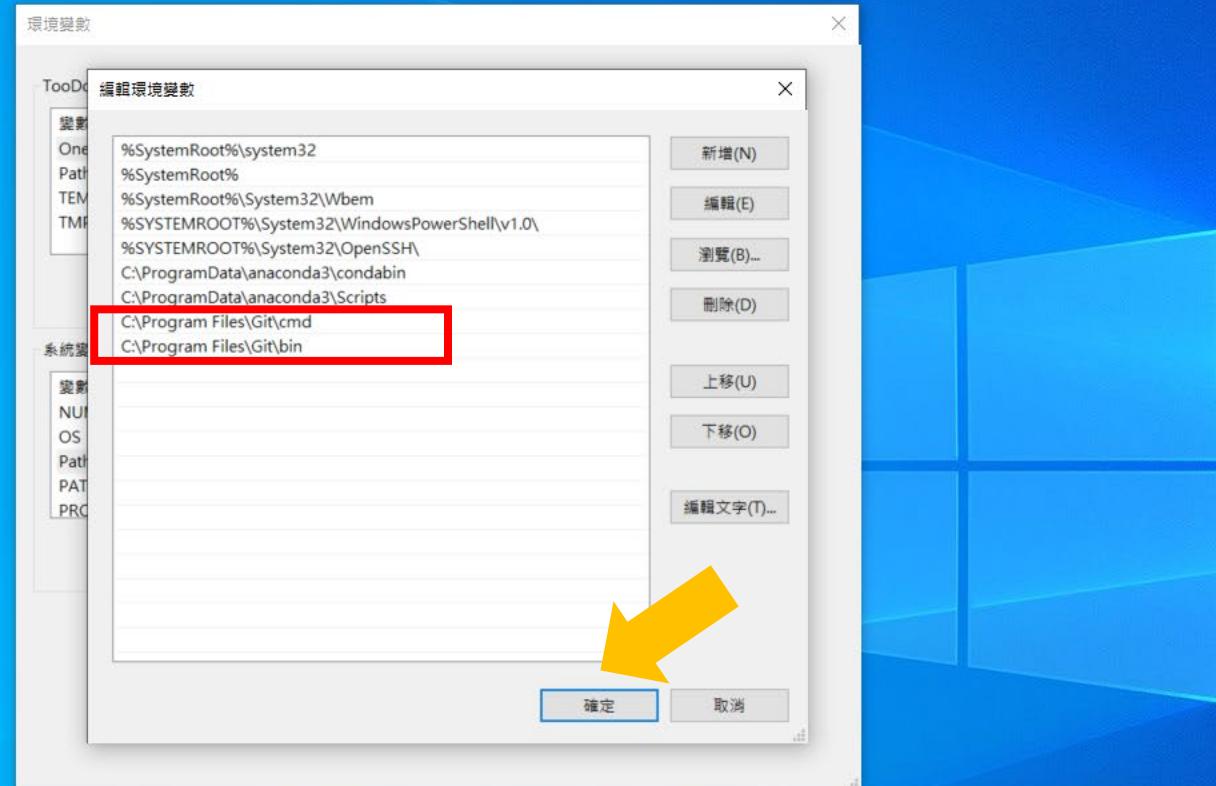
Chun-Hsiang Chan (2025)

Click “Finish”



Chun-Hsiang Chan (2025)

Set “環境變數” (environmental variables)



GitHub - CSSEGISandData/COVID-19

Product Solutions Open Source Pricing

This repository has been archived by the owner on Mar 10, 2023. It is now read-only.

<https://github.com/CSSEGISandData/COVID-19>

Download COVID-19 Data from JHU

Novel Coronavirus (COVID-19) Cases, provided by JHU CSSE

systems.jhu.edu/research/public-health/...

engineering johns-hopkins-university jhu csse 2019-ncov coronavirus covid-19 systems-science

Readme Activity 29.2k stars 869 watching 18.7k forks Report repository

Releases No releases published

Packages No packages published

Used by 1

Code Go to file

master 1.603 branches 0 tags

CSSEGISandData Update README.md 4360e50 on Mar 10 7,691 commits

archived_data archived_0325 3 years ago

csse_covid_19_data Automated update 6 months ago

who_covid_19_situation_reports update who readme 3 years ago

.gitignore update 4 years ago

README.md Update README.md 6 months ago

README.md

COVID-19 Data Repository by the Center for Systems Science and Engineering (CSSE) at Johns Hopkins University

On March 10, 2023, the Johns Hopkins Coronavirus Resource Center ceased its collecting and reporting of global COVID-19 data. For updated cases, deaths, and vaccine data please visit the following sources:

- Global: [World Health Organization \(WHO\)](#)
- U.S.: [U.S. Centers for Disease Control and Prevention \(CDC\)](#)

For more information, visit the [Johns Hopkins Coronavirus Resource Center](#).

Chun-Hsiang Chan (2025)

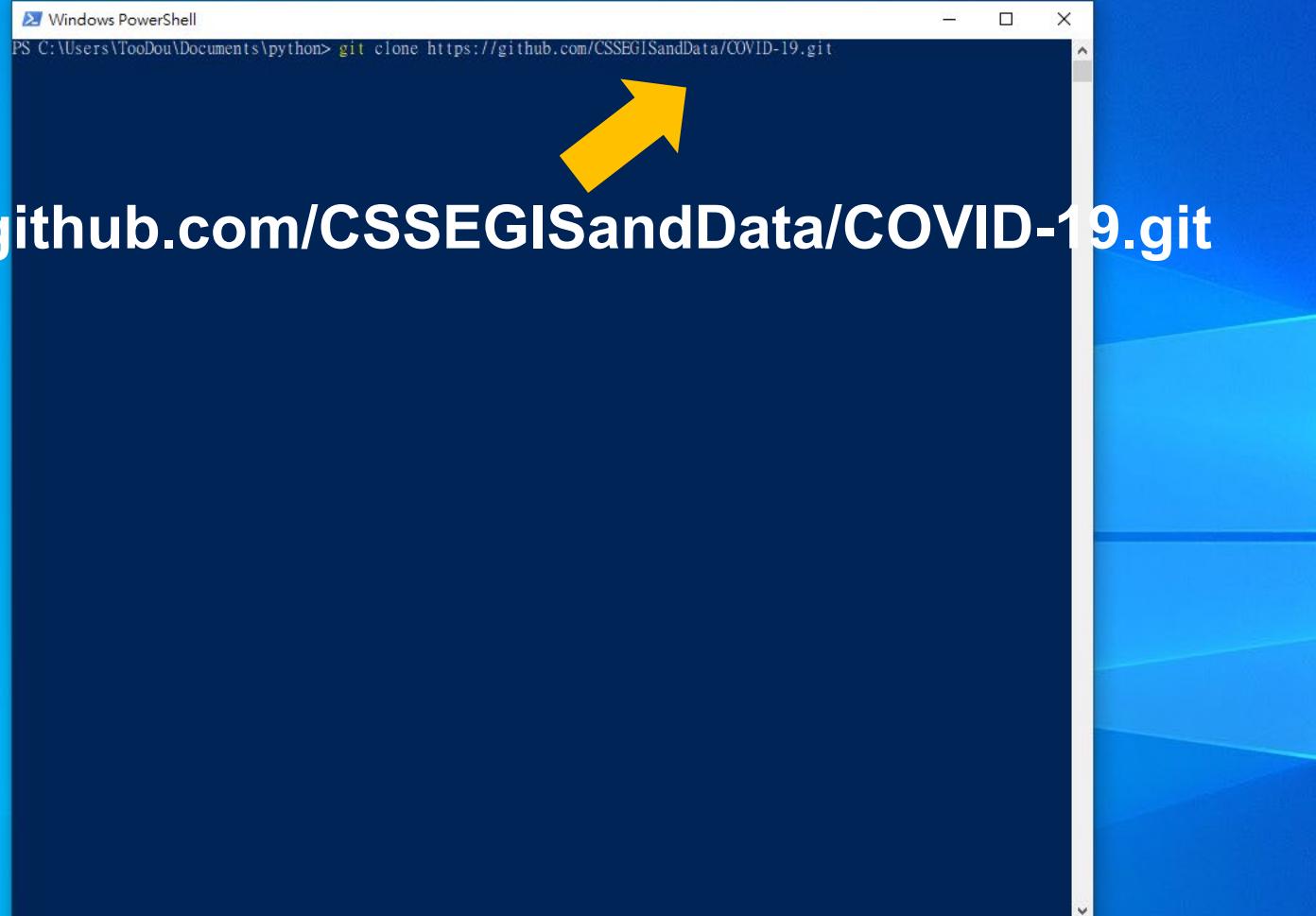


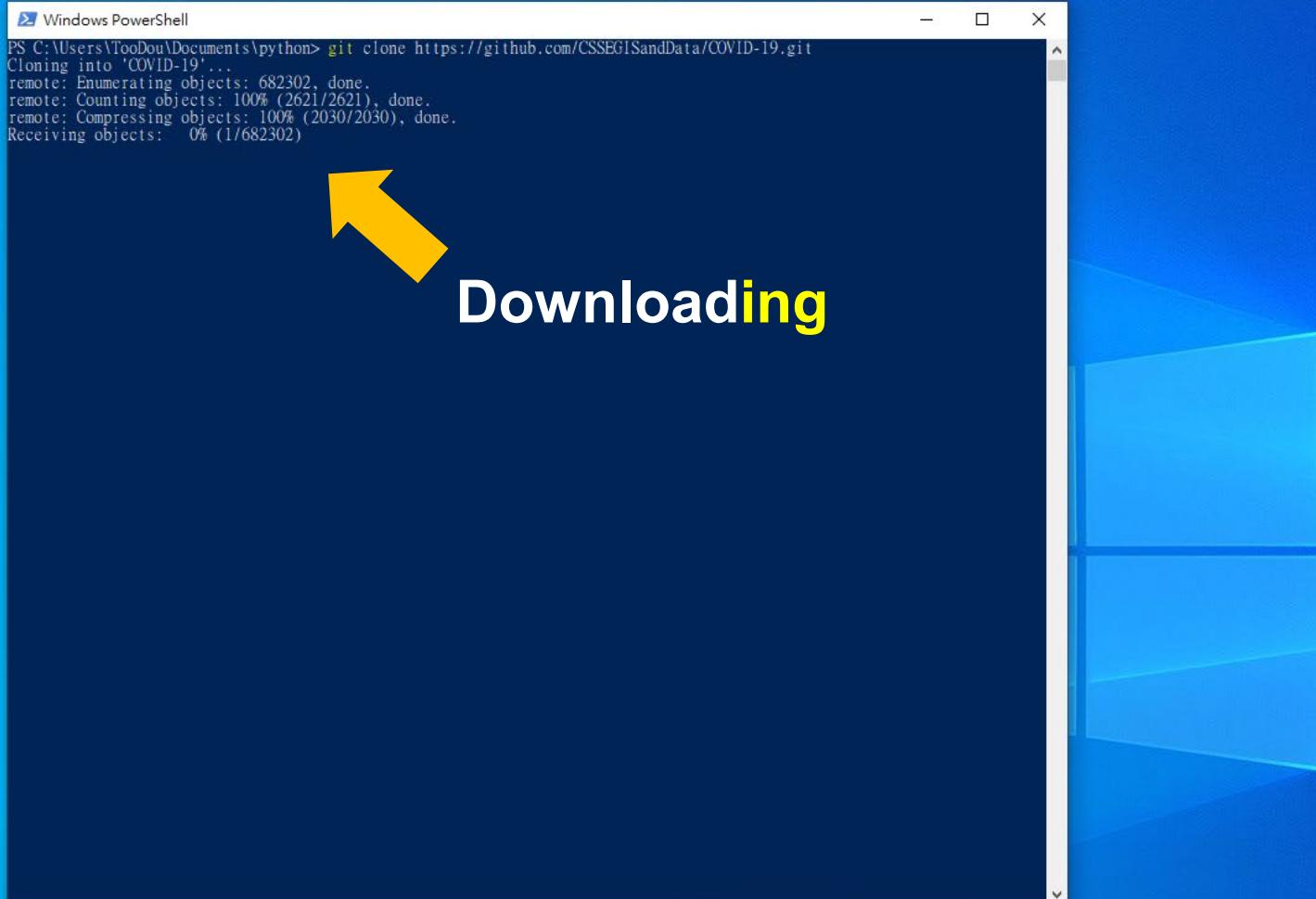
69

下午 09:19
2023/9/10

Open terminal...

git clone https://github.com/CSSEGISandData/COVID-19.git





A Windows PowerShell window titled "Windows PowerShell" is open on a blue desktop background. The command "git clone https://github.com/CSSEGISandData/COVID-19.git" is being run, and the output shows the cloning process: "Cloning into 'COVID-19'...", "remote: Enumerating objects: 682302, done.", "remote: Counting objects: 100% (2621/2621), done.", "remote: Compressing objects: 100% (2030/2030), done.", "Receiving objects: 0% (1/682302)". A large yellow arrow points from the word "Downloading" to the "Receiving objects" line in the terminal output.

Downloading

The End

Thank you for your attention!

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